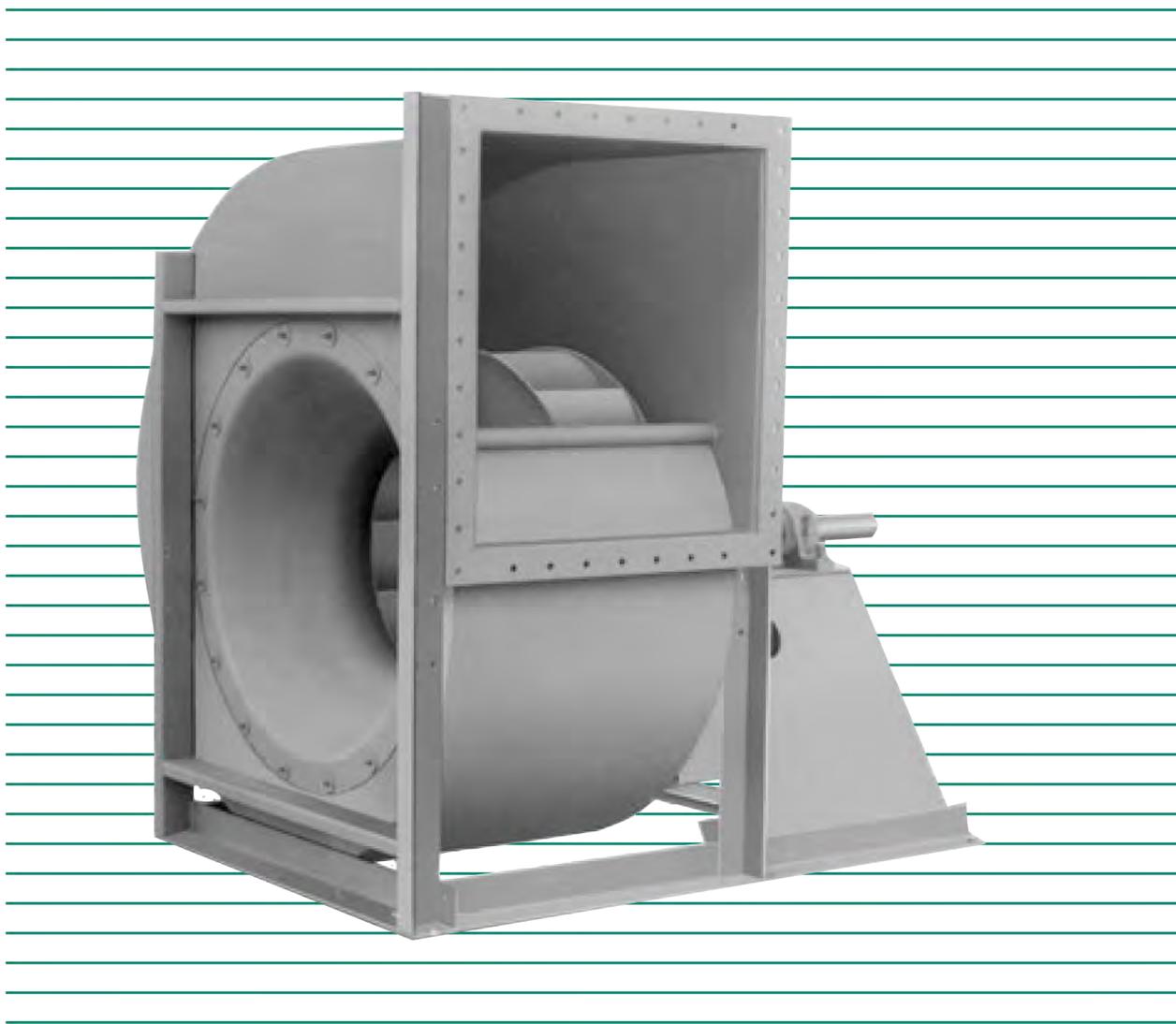


Series 5000 Centrifugal Airfoil Fans

Design 5010 • Class I, II, & III



Series 5000 Centrifugal Airfoil Fans

The Design 5010 Airfoil fan is a quiet, highly efficient, and stable operating fan suited for a broad range of industrial and commercial applications.

Commercial air conditioning systems, general supply and exhaust ventilation:

Public Buildings
Hospitals
Warehouses
Offices
Department Stores
Schools

Industrial supply and exhaust:

Forced Draft
Combustion Air Supply
Locomotive Traction Motor Cooling
Spray Booth Supply and Exhaust
Pulp and Paper Machines
Grain Drying
Drying Kilns

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Housing & Framing

Rugged heavy gauge all welded steel housings with substantial framing sections for maximum rigidity.

Airfoil Wheel

Superior combination of high efficiency, stable operation and low noise level.

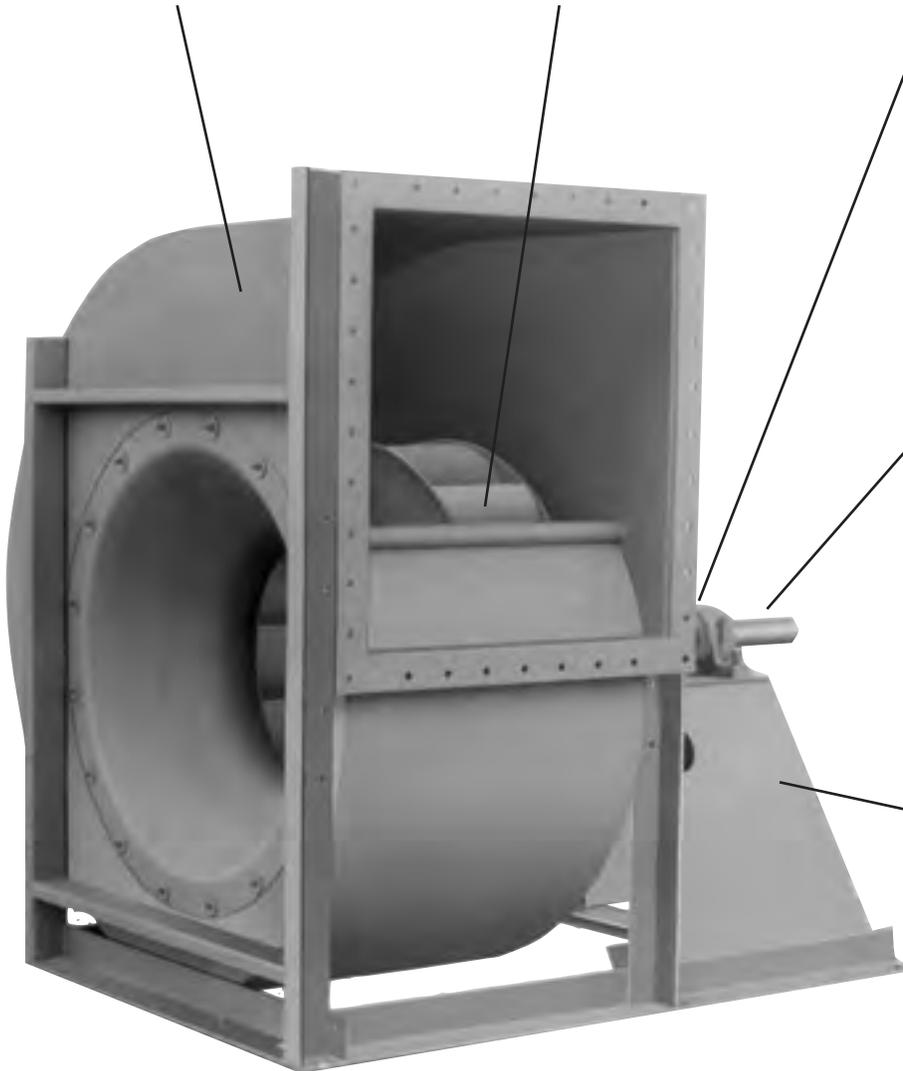
Bearings

Heavy duty precision ball or roller bearings sized for generous B-10 life.

Shafts

Turned ground and polished or fully machined to close dimensional tolerance.

**Heavy Duty
Structural Bearing Pedestal**



Balancing

Wheels are dynamically balanced to ISO 1940 specifications for smooth operation.

Shafts and Bearings

Shafts

Selected to have suitable strength and operate well below the first critical speed for each maximum class condition.

Bearings

Antifriction, grease lubricated, self aligning ball or roller types, solid or split housing, manufactured to internationally adopted standards by companies having worldwide acceptance and support services. Bearings are selected for continuous belt driven operation with a generous bearing life throughout each full class range.



Classes of Construction

Arrangement's	Fan Size Range	
	Class I & II	Class III
A/1 - SISW	1350 - 8075	2225 - 6600
A/3 - SISW	1825 - 8075	2225 - 6600
A/9 - SISW	1350 - 6000	2225 - 6000
A/10 - SISW	1350 - 3650	N.A.
A/3 - DIDW	1825 - 8075	2225 - 6600

Capacities

500 CFM to 280,000 CFM

Pressures

Class I to 9" S.P. (Size 1350 - 3650)
 Class I to 8" S.P. (Size 4025 - 8075)
 Class II to 13" S.P. (Size 1350 - 8075)
 Class III to 21" S.P. (Size 2225 - 6600)

Design 5010

Centrifugal Airfoil Wheel

The Northern Blower Airfoil wheel is designed for high operating efficiency. Blades are die formed hollow airfoil sections reinforced as required for class of duty. Continuously welded steel construction is standard. Available from 13 1/2" to 80 3/4" diameters.



Temperatures

Operating Temperatures to 800° F
 See Table 2, Page 6

Variable Inlet Vanes

Variable Inlet Vanes provide accurate volume control with minimal reduction in performance efficiency. Fan performance remains stable through fully open to fully closed positions. Available for both manual and automatic operation to temperatures of 300°F. Special design available for temperatures to 650°F.



Outlet Damper

Outlet Dampers are the least expensive air volume control device but are less efficient than Variable Inlet Vanes or Inlet Box with Inlet Damper. Northern Blower Outlet Dampers have punched flanges on both ends to allow for convenient fan and duct connections. Both parallel blade and opposed blade designs are available for operating temperatures to 650°F.



Inlet Box/ Inlet Box Damper

An Inlet Box provides smooth aerodynamic airflow into the fan inlet. The Inlet Box is designed as a bolt-on accessory to the fan. Inlet Dampers also are available in conjunction with the Inlet Box for efficient air volume control.



Raised Access Door

Access door raised 6" beyond scroll surface to provide room for insulation on exterior of fan housing. Insulated door plug surface is flush with inside of housing scroll.



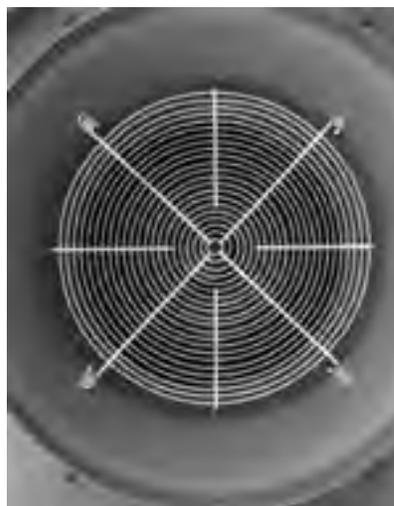
Flush Access Door

Access door mounted flush to the fan scroll and secured with bolted clips. Quick release handle system also available.



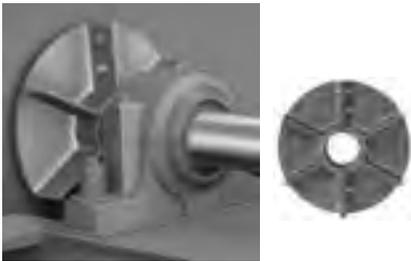
Inlet Screen

Steel screen mounted to the inlet cone. Screens are split where required for easy removal.



Cooling Wheel

Split aluminum wheel mounted between the inboard bearing and the fan housing. Protects the inboard bearing from shaft conveyed heat and housing radiated heat. Supplied with protective guard as standard. Required for high temperature application; see Table 2 on Page 6.



Shaft Seal

Used to reduce leakage through the shaft hole in the housing. Seal material aluminum, brass, or compressed non-asbestos gasket sheet, depending on fan application.



Belt Guard

Enclosed on all sides for safe operation and vented to prevent overheating. Tachometer holes, hinged cover, and safety colour coatings also available.



Flanged Outlet/ Flanged Inlet

Punched flanges to facilitate the bolting of duct connections to the fan inlet and outlet. Flanged Outlet needed when the fan is to be fitted with an Outlet Damper.



Unitary Base

Rigid steel frame to provide a common mounting platform for fan and motor. May be ordered with spring or rubber-in-shear isolators and motor slide base.



Additional Accessories

- Spark Resistant Construction
- Shaft and Bearing Guards
- Protective Coatings
- Split Housings
- Special Metals
- Drain Openings
- High Temperature Construction
- Extended Grease Fittings
- Insulation Clips
- Weepholes
- Split Block Bearings
- Mounted Drive Package
- Square Flanged Inlet

Due to the wide variety of airfoil fans available from Northern Blower we are unable to publish all information in one bulletin. Further information on custom fans is available from your Northern Blower sales representative.

Fan Selection at Elevated Temperature and Altitude

Fan Selection Tables

Ratings shown in the Performance Tables are based on standard air density of .075 pounds per cubic foot at the fan inlet. Standard air is dry air at 70°F and 29.92" Hg barometric pressure. When air density varies from standard, due to temperature or altitude changes, the Air Density Correction Factor from Table 3 is applied. Refer to the sample selection that follows.

Note that data in the selection tables does not include the effects of accessories such as inlet dampers, outlet dampers, screens, or other components in the air stream.

Fans selected for high temperature service must fall within the limits for a particular arrangement as shown in Table 2. For selection, both fan performance and physical operating limits must be corrected. Refer to the sample selection on the following page.

Table 1

Wheel & Shaft Maximum Speeds at 70°F (SISW only)						
Size	Class I		Class II		Class III	
	Shaft	Wheel	Shaft	Wheel	Shaft	Wheel
1350	3644	4926	4446	4926		
1500	3267	4433	3986	4433		
1650	2969	4031	3623	4031		
1825	2657	3439	3244	3439		
2000	2430	3138	2956	3138		
2225	2180	2820	2669	2820	3357	3775
2450	1988	2562	2428	2562	3054	3310
2700	1804	2239	2203	2239	2771	2861
3000	1623	2143	1982	2143	2493	2637
3300	1447	1857	1769	1857	2225	2366
3650	1307	1782	1598	1782	2010	2142
4025	1134	1230	1450	1575	1824	1943
4450	1019	1058	1305	1352	1641	1747
4900	925	1024	1184	1308	1490	1548
5425	836	879	1071	1123	1347	1441
6000	755	894	967	1002	1216	1303
6600	687	775	879	928	1106	1144
7300	621	674	796	839		
8075	562	573	719	739		

Table 2

High Temperature Operating Limits		
Arrg't	Without Cooling Wheel	With Cooling Wheel
1 SW	300°F	650°F *
3 SW	150°F	N/A
3 DW	150°F	N/A
10 SW	150°F	N/A
9 SW	300°F	650°F

* 800° F with cooling wheel and shaft seal.

Table 1

Air Temp °F	Air Density Correction Factor						
	Elevation (Feet) above Sea Level						
	0	500	1000	2000	3000	4000	5000
-40°	.79	.81	.82	.85	.88	.92	.95
0°	.87	.88	.90	.93	.97	1.00	1.04
40°	.94	.96	.98	1.01	1.05	1.09	1.13
70°	1.00	1.02	1.04	1.08	1.12	1.16	1.20
100°	1.06	1.08	1.10	1.14	1.18	1.22	1.27
140°	1.13	1.15	1.17	1.22	1.26	1.31	1.36
180°	1.21	1.23	1.25	1.30	1.35	1.40	1.45
200°	1.25	1.27	1.29	1.34	1.39	1.44	1.50
250°	1.34	1.36	1.39	1.44	1.49	1.55	1.61
300°	1.43	1.46	1.49	1.54	1.60	1.66	1.72
350°	1.53	1.56	1.58	1.64	1.71	1.77	1.84
400°	1.62	1.65	1.68	1.75	1.81	1.88	1.95
450°	1.72	1.75	1.78	1.85	1.92	1.99	2.06
500°	1.81	1.84	1.88	1.95	2.02	2.10	2.18
600°	2.00	2.04	2.07	2.15	2.23	2.32	2.40
700°	2.19	2.23	2.27	2.35	2.44	2.53	2.63
800°	2.38	2.42	2.46	2.56	2.65	2.75	2.86

Table 4

Safe Speed Deration Factors		
Temp °F	Steel Wheel	Steel Shaft
-50 to 150	1.0	1.0
200	.93	1.0
300	.89	1.0
400	.86	.99
500	.82	.97
600	.79	.96
700	.76	.95
800	.68	.94

Sample Selection of a Belt Drive Fan

Select a fan for the operating conditions of 6000 CFM at 2-1/2" SP, 500°F and 1000 feet elevation.

- 1) Multiply the Operating SP by the Air Density Correction Factor (Table 3) to obtain Equivalent SP:

$$\begin{aligned} \text{Equivalent SP} &= \text{Operating SP} \times \text{Air Density Corr. Factor} \\ &= 2\text{-}1/2" \times 1.88 = 4.7" \end{aligned}$$

- 2) From the Performance Tables, select the fan size. For 6000 CFM at 4.7" SP an efficient selection would be a size 2450 fan. Interpolating from the Performance Table given on page 14, the selected fan performance is 1526 RPM and 5.47 BHP at standard temperature and pressure.

- 3) Divide the Equivalent BHP by the Air Density Correction Factor to obtain the Operating BHP:

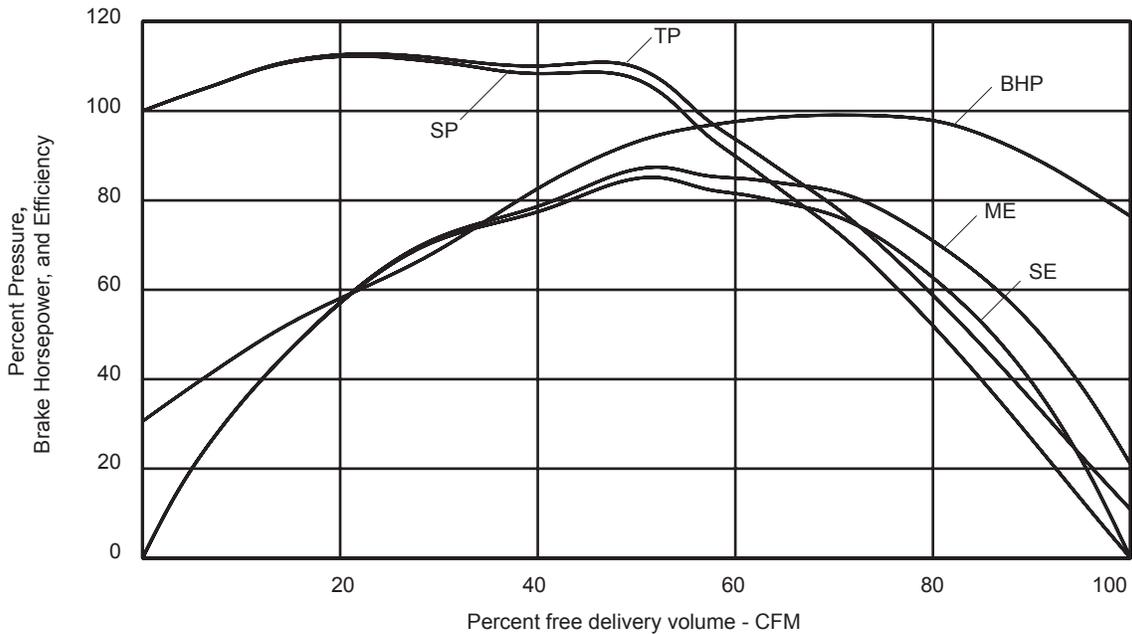
$$\begin{aligned} \text{Operating BHP} &= \frac{\text{Equivalent BHP}}{\text{Air Density Correction Factor}} \\ &= \frac{5.47}{1.88} = 2.91 \text{ BHP} \end{aligned}$$

- 4) Multiply the Wheel & Shaft Maximum Speed 70°F values at (Table 1) by the Wheel & Shaft Safe Speed Deration Factors (Table 4). Fan size 2450, Class I, the maximum speed at 500°F is:

$$\begin{aligned} \text{Wheel} &= 2562 \times 0.82 = 2101 \text{ RPM} \\ \text{Shaft} &= 1988 \times 0.97 = 1928 \text{ RPM} \end{aligned}$$

Since the fan selection speed of 1526 RPM is below **both** the maximum allowable wheel and shaft speeds, the Class I fan is a suitable selection.

Design 5010 Performance Curve



- High Efficiency
- Stable Operation
- Quiet

Wheel Diameter = 13.50 in.
 Outlet Area = 1.05 sq. ft. inside
 Maximum BHP = .088 x (RPM/1000)³
 Tip Speed, fpm = 3.53 x RPM

Size

1350 sisw

Class I RPM 3644
 Class II RPM 4446

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		1/2"SP		3/4"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP		2"SP		2-1/4"SP		2-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
500	477	677	0.03	857	0.05																
600	572	737	0.03	902	0.06	1045	0.09														
700	668	805	0.04	953	0.07	1088	0.11	1209	0.15	1324	0.18										
800	763	878	0.06	1011	0.09	1137	0.13	1252	0.16	1358	0.21	1460	0.25								
900	858	953	0.07	1076	0.11	1191	0.15	1301	0.19	1402	0.23	1497	0.28	1589	0.33						
1000	954	1031	0.09	1146	0.13	1251	0.17	1353	0.21	1451	0.26	1543	0.31	1629	0.36	1712	0.41	1795	0.47	1874	0.52
1100	1049	1111	0.11	1218	0.15	1316	0.20	1410	0.24	1502	0.29	1592	0.34	1675	0.40	1755	0.45	1832	0.51	1907	0.57
1200	1145	1192	0.13	1292	0.18	1385	0.23	1473	0.28	1559	0.33	1643	0.38	1725	0.44	1803	0.50	1877	0.55	1948	0.62
1300	1240	1274	0.16	1369	0.21	1457	0.26	1540	0.32	1620	0.37	1699	0.42	1776	0.48	1852	0.54	1925	0.60	1995	0.67
1400	1335	1357	0.19	1447	0.25	1531	0.30	1610	0.36	1685	0.41	1759	0.47	1832	0.53	1904	0.60	1975	0.66	2043	0.73
1500	1431	1440	0.23	1526	0.29	1606	0.35	1681	0.41	1753	0.47	1824	0.53	1892	0.59	1960	0.65	2028	0.72	2094	0.79
1600	1526	1525	0.27	1606	0.33	1682	0.39	1755	0.46	1824	0.52	1891	0.59	1956	0.65	2020	0.72	2084	0.78	2147	0.86
1700	1622	1610	0.31	1687	0.38	1760	0.45	1829	0.51	1896	0.58	1960	0.65	2023	0.72	2084	0.79	2144	0.86	2204	0.93
1800	1717	1695	0.37	1769	0.43	1839	0.50	1906	0.58	1970	0.65	2031	0.72	2091	0.79	2150	0.86	2208	0.93	2265	1.01
1900	1812	1781	0.42	1852	0.49	1919	0.57	1983	0.64	2044	0.72	2104	0.79	2162	0.87	2219	0.94	2274	1.02	2329	1.10
2000	1908	1868	0.48	1935	0.56	2000	0.64	2061	0.71	2121	0.79	2178	0.87	2234	0.95	2289	1.03	2342	1.11	2395	1.19
2200	2099	2041	0.63	2103	0.71	2163	0.79	2220	0.88	2276	0.97	2330	1.05	2382	1.14	2433	1.23	2483	1.31	2533	1.40
2400	2289	2215	0.80	2273	0.89	2329	0.98	2382	1.07	2434	1.16	2485	1.26	2534	1.35	2582	1.45	2630	1.54	2676	1.64
2600	2480	2390	1.00	2444	1.09	2496	1.19	2546	1.29	2596	1.39	2643	1.49	2689	1.59	2735	1.70	2780	1.80	2824	1.90
2800	2671	2566	1.23	2617	1.33	2665	1.44	2712	1.54	2758	1.65	2804	1.76	2848	1.87	2891	1.98	2933	2.09	2975	2.20
3000	2862	2742	1.50	2789	1.61	2835	1.72	2880	1.83	2924	1.95	2966	2.06	3008	2.18	3049	2.29	3089	2.41	3129	2.53
3200	3052	2918	1.80	2963	1.92	3007	2.03	3049	2.15	3090	2.27	3131	2.40	3170	2.52	3209	2.64	3248	2.77	3286	2.89
3400	3243	3095	2.15	3137	2.27	3179	2.39	3219	2.52	3258	2.64	3297	2.77	3334	2.90	3372	3.04	3408	3.17	3445	3.30
3600	3434	3272	2.53	3312	2.66	3352	2.79	3390	2.92	3428	3.06	3464	3.19	3500	3.33	3536	3.47	3571	3.61	3605	3.75
3800	3625	3449	2.96	3488	3.10	3525	3.24	3562	3.37	3597	3.51	3633	3.66	3667	3.80	3701	3.95	3734	4.09	3768	4.24
4000	3816	3627	3.44	3664	3.59	3699	3.73	3735	3.87	3768	4.02	3802	4.17	3835	4.32	3867	4.47	3900	4.62	3931	4.77
4200	4006	3804	3.97	3840	4.12	3874	4.27	3908	4.42	3940	4.57	3972	4.73	4004	4.88	4035	5.04	4066	5.20	4097	5.36
4400	4197	3982	4.55	4016	4.71	4049	4.86	4081	5.02	4113	5.18	4143	5.34	4174	5.50	4204	5.67	4233	5.83	4263	6.00
Volume O.Vel		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP		7"SP		7-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1100	1049	2055	0.69																		
1200	1145	2087	0.74	2222	0.88																
1300	1240	2127	0.80	2255	0.94	2380	1.08														
1400	1335	2173	0.86	2295	1.01	2414	1.16	2530	1.31	2643	1.47										
1500	1431	2221	0.93	2340	1.08	2454	1.23	2565	1.39	2675	1.56	2782	1.73								
1600	1526	2271	1.00	2389	1.16	2500	1.31	2606	1.48	2710	1.65	2813	1.82	2914	2.00	3012	2.18				
1700	1622	2323	1.08	2438	1.24	2548	1.40	2652	1.57	2752	1.74	2851	1.92	2948	2.11	3044	2.29	3138	2.48	3329	2.67
1800	1717	2378	1.17	2489	1.33	2597	1.50	2700	1.67	2799	1.85	2894	2.03	2988	2.22	3079	2.41	3169	2.60	3259	2.80
1900	1812	2437	1.26	2543	1.42	2648	1.60	2749	1.77	2847	1.96	2941	2.14	3032	2.34	3120	2.53	3206	2.73	3293	2.94
2000	1908	2498	1.36	2600	1.53	2701	1.70	2800	1.89	2896	2.07	2989	2.26	3079	2.46	3164	2.66	3248	2.87	3332	3.08
2200	2099	2629	1.58	2723	1.76	2816	1.94	2907	2.13	2998	2.33	3087	2.53	3175	2.74	3260	2.94	3341	3.16	3421	3.38
2400	2289	2767	1.83	2854	2.02	2940	2.21	3025	2.41	3110	2.61	3194	2.82	3277	3.04	3359	3.26	3439	3.48	3517	3.71
2600	2480	2910	2.11	2993	2.31	3074	2.52	3154	2.73	3233	2.94	3311	3.16	3388	3.38	3465	3.61	3542	3.84	3618	4.08
2800	2671	3057	2.42	3136	2.64	3213	2.86	3289	3.08	3362	3.31	3435	3.53	3508	3.76	3581	4.00	3653	4.24	3724	4.48
3000	2862	3207	2.76	3282	3.00	3356	3.24	3428	3.47	3498	3.71	3568	3.95	3637	4.19	3705	4.43	3772	4.68	3839	4.93
3200	3052	3359	3.14	3432	3.40	3502	3.65	3571	3.90	3638	4.15	3705	4.40	3771	4.66	3835	4.91	3899	5.17	3963	5.43
3400	3243	3515	3.56	3584	3.83	3651	4.10	3718	4.37	3782	4.63	3846	4.90	3909	5.17	3971	5.43	4032	5.70	4093	5.98
3600	3434	3673	4.03	3739	4.31	3804	4.59	3867	4.87	3930	5.16	3990	5.43	4051	5.72	4111	6.00	4169	6.28	4228	6.57
3800	3625	3832	4.53	3896	4.82	3959	5.12	4019	5.42	4079	5.71	4138	6.02	4195	6.31	4253	6.61	4309	6.90	4365	7.20
4000	3816	3994	5.08	4055	5.39	4114	5.70	4173	6.01	4231	6.32	4287	6.64	4344	6.95	4398	7.26				
4200	4006	4156	5.68	4215	6.00	4273	6.33	4329	6.65	4385	6.98	4439	7.31								
4400	4197	4320	6.33	4378	6.68	4432	7.01														
Volume O.Vel		8"SP		8-1/2"SP		9"SP		9-1/2"SP		10"SP		10-1/2"SP		11"SP		11-1/2"SP		12"SP		13"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1800	1717	3349	3.01	3436	3.21																
1900	1812	3380	3.15	3463	3.36	3548	3.57	3630	3.79												
2000	1908	3415	3.29	3496	3.51	3578	3.73	3657	3.95	3737	4.18										
2200	2099	3500	3.60	3575	3.82	3651	4.06	3726	4.29	3800	4.53	3874	4.77	3947	5.01	4020	5.25	4093	5.50		
2400	2289	3593	3.94	3668	4.18	3739	4.41	3812	4.66	3881	4.90	3951	5.16	4019	5.40	4088	5.66	4155	5.92	4290	6.45
2600	2480	3691	4.32	3764	4.56	3836	4.81	3905	5.06	3974	5.32	4040	5.57	4106	5.83	4170	6.10	4234	6.37	4361	6.91
2800	2671	3795	4.74	3865	4.99	3934	5.24	4003	5.50	4069	5.76	4136	6.03	4200	6.30	4263	6.57	4325	6.85		
3000	2862	3906	5.19	3973	5.45	4040	5.72	4104	5.99	4171	6.26	4233	6.53	4298	6.82	4359	7.09	4421	7.38		
3200	3052	4025	5.69	4089	5.96	4151	6.24	4214	6.51	4276	6.79	4337	7.08	4398	7.37						
3400	3243	4152	6.24	4212	6.53	4270															

Performance Data

Wheel Diameter = 15.00 in.
 Outlet Area = 1.29 sq. ft. inside
 Maximum BHP = .148 x (RPM/1000)³
 Tip Speed, fpm = 3.93 x RPM

Size

1500 SISW

Class I RPM 3267
 Class II RPM 3986

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		1/2"SP		3/4"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP		2"SP		2-1/4"SP		2-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	464	602	0.03	766	0.06																
700	541	644	0.04	797	0.07	930	0.11														
800	618	692	0.05	833	0.08	957	0.12	1072	0.17												
900	695	743	0.06	872	0.10	991	0.14	1098	0.19	1199	0.23										
1000	773	797	0.07	916	0.11	1028	0.16	1131	0.21	1226	0.26	1317	0.31								
1100	850	852	0.09	963	0.13	1067	0.18	1167	0.23	1258	0.28	1344	0.34	1427	0.40	1508	0.46				
1200	927	908	0.10	1013	0.15	1110	0.20	1204	0.25	1293	0.31	1376	0.37	1455	0.43	1531	0.50	1607	0.56	1680	0.63
1400	1082	1024	0.15	1119	0.20	1206	0.26	1288	0.31	1369	0.37	1447	0.44	1523	0.51	1594	0.58	1662	0.65	1728	0.72
1600	1236	1143	0.20	1229	0.26	1309	0.32	1384	0.39	1456	0.45	1527	0.52	1597	0.59	1665	0.67	1731	0.74	1794	0.82
1800	1391	1265	0.26	1343	0.33	1416	0.40	1486	0.48	1552	0.55	1616	0.62	1680	0.70	1742	0.78	1804	0.86	1865	0.94
2000	1545	1388	0.34	1460	0.42	1528	0.50	1593	0.58	1654	0.66	1714	0.74	1772	0.82	1829	0.90	1886	0.99	1942	1.07
2200	1700	1512	0.44	1579	0.52	1642	0.61	1703	0.70	1761	0.78	1816	0.87	1871	0.96	1924	1.05	1977	1.14	2028	1.23
2400	1854	1637	0.55	1700	0.64	1759	0.74	1816	0.83	1870	0.93	1923	1.02	1974	1.12	2024	1.21	2074	1.31	2122	1.41
2600	2009	1763	0.69	1822	0.78	1877	0.88	1931	0.99	1982	1.09	2032	1.19	2081	1.29	2128	1.40	2175	1.50	2220	1.60
2800	2163	1890	0.84	1945	0.95	1997	1.05	2048	1.16	2096	1.27	2144	1.38	2190	1.49	2235	1.60	2279	1.71	2323	1.82
3000	2318	2017	1.02	2069	1.13	2118	1.24	2166	1.36	2212	1.48	2257	1.59	2301	1.71	2345	1.83	2387	1.95	2428	2.07
3200	2472	2145	1.22	2193	1.34	2240	1.46	2286	1.58	2330	1.71	2373	1.83	2415	1.96	2456	2.08	2496	2.21	2536	2.33
3400	2627	2273	1.45	2319	1.57	2364	1.70	2407	1.83	2449	1.96	2490	2.09	2530	2.23	2569	2.36	2608	2.49	2646	2.63
3600	2782	2401	1.71	2445	1.84	2487	1.97	2528	2.10	2569	2.24	2608	2.38	2646	2.52	2684	2.66	2721	2.80	2757	2.94
3800	2936	2529	1.99	2571	2.13	2612	2.27	2651	2.41	2690	2.55	2727	2.70	2764	2.85	2800	2.99	2836	3.14	2871	3.29
4000	3091	2658	2.31	2698	2.45	2737	2.60	2775	2.74	2811	2.89	2848	3.03	2883	3.20	2918	3.36	2952	3.51	2986	3.67
4200	3245	2787	2.66	2825	2.80	2863	2.96	2898	3.11	2934	3.27	2969	3.45	3003	3.59	3036	3.75	3069	3.91	3102	4.08
4400	3400	2916	3.04	2953	3.19	2989	3.35	3023	3.51	3057	3.68	3090	3.84	3124	4.01	3155	4.18	3188	4.35	3218	4.52
4600	3554	3045	3.46	3081	3.62	3115	3.78	3148	3.95	3181	4.12	3213	4.29	3244	4.47	3276	4.65	3306	4.82	3337	5.00
4800	3709	3174	3.91	3209	4.08	3242	4.25	3274	4.43	3305	4.60	3337	4.79	3367	4.96	3397	5.15	3426	5.33	3455	5.51
5000	3863	3304	4.41	3337	4.59	3369	4.76	3400	4.94	3430	5.12	3460	5.31	3490	5.50	3518	5.69	3547	5.88	3575	6.07
5200	4018	3434	4.94	3465	5.13	3496	5.31	3526	5.50	3556	5.69	3584	5.88	3613	6.07	3641	6.27	3668	6.46	3696	6.67
5400	4172	3563	5.52	3495	5.71	3624	5.90	3653	6.10	3682	6.29	3709	6.49	3736	6.69	3764	6.89	3790	7.09	3816	7.30
Volume O.Vel		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP		7"SP		7-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1400	1082	1858	0.88																		
1600	1236	1913	0.99	2028	1.16	2141	1.34														
1800	1391	1981	1.11	2089	1.29	2193	1.48	2294	1.68	2394	1.87	2492	2.08								
2000	1545	2053	1.26	2159	1.45	2259	1.64	2354	1.85	2447	2.06	2538	2.27	2629	2.49	2717	2.72				
2200	1700	2131	1.42	2232	1.62	2329	1.82	2422	2.04	2511	2.25	2597	2.48	2682	2.71	2765	2.95	2848	3.19	2928	3.43
2400	1854	2217	1.60	2311	1.81	2403	2.03	2494	2.25	2581	2.48	2665	2.71	2746	2.95	2825	3.19	2903	3.45	2979	3.70
2600	2009	2310	1.81	2397	2.03	2484	2.25	2570	2.48	2654	2.72	2737	2.96	2816	3.21	2893	3.47	2967	3.72	3040	3.99
2800	2163	2408	2.05	2490	2.27	2571	2.50	2652	2.74	2731	2.99	2810	3.24	2887	3.50	2963	3.76	3038	4.03	3108	4.30
3000	2318	2509	2.31	2587	2.54	2664	2.78	2740	3.03	2815	3.29	2890	3.55	2964	3.82	3037	4.09	3108	4.36	3178	4.64
3200	2472	2613	2.59	2688	2.84	2762	3.09	2834	3.35	2905	3.61	2975	3.88	3045	4.16	3115	4.44	3184	4.72	3252	5.02
3400	2627	2720	2.89	2792	3.16	2862	3.43	2931	3.70	2999	3.98	3066	4.25	3132	4.53	3198	4.82	3264	5.12	3329	5.42
3600	2782	2828	3.23	2898	3.51	2965	3.79	3032	4.08	3097	4.37	3161	4.65	3224	4.94	3286	5.24	3349	5.55	3411	5.85
3800	2936	2939	3.59	3006	3.89	3071	4.19	3135	4.49	3197	4.79	3259	5.09	3319	5.39	3379	5.69	3439	6.01	3498	6.32
4000	3091	3052	3.98	3116	4.30	3179	4.61	3240	4.93	3300	5.24	3360	5.55	3418	5.87	3476	6.19	3533	6.51	3589	6.83
4200	3245	3165	4.40	3227	4.73	3288	5.06	3347	5.40	3406	5.72	3463	6.05	3519	6.39	3575	6.71	3630	7.05	3685	7.38
4400	3400	3280	4.86	3340	5.21	3399	5.55	3456	5.89	3512	6.24	3568	6.59	3622	6.93	3677	7.28	3729	7.62	3782	7.97
4600	3554	3396	5.36	3454	5.71	3511	6.07	3567	6.44	3621	6.79	3675	7.15	3728	7.51	3780	7.87	3832	8.24	3882	8.59
4800	3709	3513	5.88	3569	6.26	3624	6.63	3678	7.00	3731	7.38	3783	7.75	3834	8.13	3885	8.51	3935	8.88	3985	9.26
5000	3863	3631	6.46	3685	6.84	3738	7.22	3791	7.62	3842	8.00	3893	8.40	3943	8.79						
5200	4018	3750	7.06	3802	7.46	3855	7.87	3905	8.26	3955	8.67										
5400	4172	3869	7.71	3921	8.13	3970	8.54														
Volume O.Vel		8"SP		8-1/2"SP		9"SP		9-1/2"SP		10"SP		10-1/2"SP		11"SP		11-1/2"SP		12"SP		13"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2200	1700	3009	3.68																		
2400	1854	3054	3.96	3130	4.23	3203	4.49	3277	4.76	3348	5.04										
2600	2009	3112	4.26	3182	4.53	3253	4.82	3322	5.09	3392	5.38	3459	5.67	3528	5.96	3593	6.25				
2800	2163	3177	4.58	3246	4.87	3312	5.15	3378	5.45	3443	5.74	3509	6.05	3572	6.34	3638	6.66	3700	6.96	3826	7.59
3000	2318	3248	4.94	3313	5.22	3379	5.52	3442	5.82	3505	6.13	3567	6.44	3628	6.75	3689	7.07	3750	7.39	3870	8.04
3200	2472	3318	5.31	3384	5.61	3449	5.92	3511	6.22	3573	6.54	3632	6.85	3692	7.18	3750	7.50	3808	7.84	3922	8.51
3400	2627	3393	5.72	3458	6.04	3520	6.34	3582	6.66	3642	6.98	3702	7.31	3760	7.64	3818	7.98	3873	8.31	3983	9.00
3600	2782	3473	6.16	3534	6.49	3595	6.81	3656	7.14	3714	7.46	3774	7.81	3830	8.14	3888	8.49	3942	8.83		
3800	2936	3557	6.64	3616	6.97	3673	7.30	3732	7.64	3789	7.98	3847	8.33	3902	8.67	3958	9.03				
4000	3091	3645	7.16	3702	7.50	3757	7.83	3813	8.18	3868	8.53	3923	8.89	3977	9.24						

Wheel Diameter = 16.50 in.
 Outlet Area = 1.56 sq. ft. inside
 Maximum BHP = .239 x (RPM/1000)³
 Tip Speed, fpm = 4.32 x RPM

Size

1650 sisw

Class I RPM 2969
 Class II RPM 3623

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		1/2"SP		3/4"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP		2"SP		2-1/4"SP		2-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	383	513	0.03																		
800	511	570	0.04	713	0.08	838	0.13														
1000	639	641	0.06	767	0.11	879	0.15	980	0.21												
1200	766	720	0.09	829	0.13	931	0.19	1026	0.25	1112	0.31	1195	0.38								
1400	894	803	0.12	901	0.17	992	0.23	1080	0.29	1162	0.36	1238	0.43	1311	0.51	1383	0.58	1452	0.66		
1600	1022	890	0.15	979	0.22	1061	0.28	1140	0.35	1217	0.42	1290	0.50	1360	0.58	1425	0.66	1489	0.74	1552	0.83
1800	1149	978	0.20	1060	0.27	1136	0.34	1208	0.42	1278	0.49	1346	0.57	1413	0.66	1477	0.74	1537	0.83	1596	0.92
2000	1277	1069	0.26	1145	0.34	1215	0.42	1282	0.50	1346	0.58	1409	0.66	1471	0.75	1532	0.84	1591	0.93	1647	1.03
2200	1405	1160	0.33	1231	0.41	1297	0.50	1359	0.59	1419	0.67	1477	0.76	1534	0.86	1591	0.95	1647	1.05	1701	1.15
2400	1533	1252	0.41	1319	0.50	1381	0.59	1440	0.69	1496	0.78	1551	0.88	1604	0.98	1656	1.08	1708	1.18	1760	1.28
2600	1660	1345	0.50	1408	0.60	1466	0.70	1522	0.80	1575	0.91	1627	1.01	1678	1.11	1727	1.22	1775	1.33	1824	1.44
2800	1788	1439	0.61	1498	0.71	1553	0.82	1606	0.93	1657	1.04	1706	1.16	1754	1.27	1801	1.38	1847	1.49	1892	1.60
3000	1916	1534	0.73	1589	0.84	1642	0.96	1692	1.08	1740	1.20	1787	1.31	1833	1.43	1877	1.55	1921	1.67	1964	1.79
3200	2043	1629	0.87	1681	0.99	1731	1.11	1779	1.24	1825	1.36	1870	1.49	1914	1.62	1956	1.74	1998	1.87	2039	2.00
3400	2171	1724	1.03	1774	1.16	1821	1.29	1867	1.42	1911	1.55	1954	1.68	1996	1.82	2037	1.95	2077	2.09	2116	2.22
3600	2299	1819	1.21	1867	1.34	1912	1.47	1956	1.61	1998	1.75	2039	1.89	2079	2.04	2119	2.18	2158	2.32	2195	2.46
3800	2426	1915	1.40	1960	1.54	2004	1.68	2045	1.83	2086	1.98	2126	2.13	2165	2.28	2202	2.42	2239	2.57	2276	2.73
4000	2554	2011	1.62	2054	1.77	2096	1.92	2136	2.07	2175	2.22	2213	2.38	2250	2.53	2287	2.69	2323	2.85	2358	3.01
4200	2682	2108	1.86	2149	2.01	2189	2.17	2227	2.33	2265	2.49	2302	2.65	2338	2.82	2373	2.98	2407	3.15	2441	3.31
4400	2810	2204	2.13	2244	2.28	2282	2.44	2319	2.61	2355	2.78	2391	2.95	2425	3.12	2459	3.29	2493	3.46	2525	3.64
4600	2937	2300	2.41	2339	2.58	2375	2.74	2411	2.92	2446	3.09	2480	3.27	2514	3.45	2547	3.63	2579	3.81	2611	3.99
4800	3065	2397	2.73	2434	2.90	2469	3.07	2504	3.25	2537	3.43	2571	3.62	2603	3.80	2635	3.99	2666	4.17	2697	4.36
5000	3193	2494	3.07	2529	3.24	2564	3.43	2597	3.61	2629	3.80	2661	3.99	2693	4.18	2724	4.38	2754	4.57	2784	4.76
5400	3448	2688	3.83	2721	4.02	2753	4.22	2784	4.41	2815	4.62	2844	4.82	2874	5.02	2903	5.23	2931	5.44	2960	5.65
5800	3704	2882	4.71	2913	4.92	2943	5.13	2973	5.34	3001	5.55	3030	5.77	3057	5.98	3084	6.21	3111	6.43	3138	6.65
6200	3959	3077	5.73	3106	5.95	3134	6.17	3162	6.39	3189	6.62	3215	6.84	3242	7.08	3267	7.31	3293	7.55	3318	7.78
6600	4214	3271	6.88	3299	7.11	3326	7.35	3352	7.58	3378	7.83	3403	8.06	3428	8.31	3452	8.55	3476	8.80	3500	9.05
Volume O.Vel		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP		7"SP		7-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1600	1022	1674	1.01																		
1800	1149	1709	1.12	1819	1.32																
2000	1277	1755	1.23	1857	1.44	1958	1.66	2056	1.89												
2200	1405	1807	1.36	1904	1.58	1999	1.81	2090	2.05	2181	2.29	2269	2.54								
2400	1533	1860	1.50	1957	1.73	2048	1.97	2135	2.22	2220	2.47	2303	2.73	2386	2.99	2467	3.27				
2600	1660	1918	1.66	2011	1.90	2101	2.15	2186	2.40	2268	2.67	2347	2.94	2424	3.21	2501	3.49	2577	3.78	2653	4.08
2800	1788	1981	1.84	2069	2.09	2155	2.34	2239	2.61	2319	2.88	2396	3.15	2470	3.44	2544	3.74	2616	4.04	2687	4.34
3000	1916	2048	2.04	2131	2.29	2213	2.56	2294	2.83	2373	3.11	2449	3.40	2522	3.69	2592	3.99	2661	4.30	2729	4.62
3200	2043	2119	2.26	2198	2.52	2275	2.79	2352	3.07	2428	3.36	2502	3.66	2574	3.96	2644	4.27	2712	4.59	2777	4.91
3400	2171	2193	2.49	2268	2.77	2341	3.05	2414	3.33	2487	3.63	2558	3.94	2628	4.25	2697	4.57	2765	4.90	2828	5.22
3600	2299	2269	2.75	2341	3.03	2411	3.33	2480	3.62	2549	3.93	2618	4.24	2686	4.57	2753	4.90	2818	5.23	2881	5.57
3800	2426	2347	3.03	2416	3.33	2484	3.63	2550	3.94	2616	4.25	2681	4.57	2746	4.90	2810	5.24	2873	5.58	2936	5.93
4000	2554	2426	3.32	2493	3.64	2559	3.96	2622	4.27	2685	4.60	2747	4.93	2809	5.27	2871	5.61	2932	5.96	2992	6.32
4200	2682	2508	3.64	2572	3.98	2636	4.31	2697	4.64	2757	4.97	2817	5.31	2876	5.66	2936	6.01	2994	6.37	3052	6.74
4400	2810	2590	3.98	2652	4.33	2713	4.68	2773	5.02	2832	5.37	2889	5.72	2946	6.08	3003	6.44	3059	6.81	3115	7.18
4600	2937	2673	4.35	2733	4.71	2792	5.07	2850	5.43	2907	5.80	2964	6.16	3018	6.53	3073	6.89	3127	7.28	3180	7.65
4800	3065	2757	4.74	2816	5.11	2874	5.49	2930	5.87	2985	6.25	3039	6.62	3093	7.01	3145	7.38	3197	7.77	3249	8.16
5000	3193	2842	5.15	2899	5.54	2955	5.94	3010	6.33	3064	6.73	3116	7.12	3168	7.51	3220	7.91	3269	8.30	3320	8.70
5400	3448	3015	6.07	3069	6.49	3121	6.91	3173	7.33	3224	7.76	3274	8.18	3323	8.60	3372	9.03	3419	9.45	3467	9.88
5800	3704	3190	7.10	3241	7.55	3291	8.00	3340	8.45	3389	8.91	3436	9.36	3483	9.81	3529	10.27	3574	10.72	3619	11.18
6200	3959	3368	8.26	3416	8.73	3464	9.22	3510	9.70	3556	10.18	3602	10.67								
6600	4214	3547	9.55	3594	10.06																
Volume O.Vel		8"SP		8-1/2"SP		9"SP		9-1/2"SP		10"SP		10-1/2"SP		11"SP		11-1/2"SP		12"SP		13"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2800	1788	2758	4.65	2828	4.96	2896	5.27														
3000	1916	2796	4.94	2862	5.26	2930	5.59	2994	5.92	3060	6.26	3123	6.59								
3200	2043	2841	5.24	2905	5.58	2968	5.91	3031	6.26	3093	6.61	3154	6.96	3215	7.31	3276	7.67	3335	8.04		
3400	2171	2891	5.56	2954	5.91	3013	6.25	3074	6.62	3133	6.97	3193	7.34	3250	7.70	3309	8.08	3366	8.44	3480	9.21
3600	2299	2944	5.91	3005	6.26	3064	6.62	3122	6.99	3179	7.35	3236	7.73	3291	8.10	3348	8.49	3403	8.87	3513	9.67
3800	2427	2998	6.29	3057	6.65	3116	7.01	3173	7.38	3229	7.76	3284	8.14	3338	8.53	3392	8.92	3446	9.32	3552	10.13
4000	2554	3053	6.69	3111	7.05	3169	7.43	3226	7.81	3281	8.19	3336	8.58	3389	8.98	3441	9.38	3493	9.79	3595	10.62
4200	2682	3111	7.11	3167	7.49	3224	7.87	3280	8.26	3334	8.65	3388	9.05	3441	9.45	3492	9.86	3544	10.28		
4400	2810	3171	7.56	3222	7.95	3281	8.34	3335	8.74	3389	9.14	3442	9.55	3494	9.96	3545	10.38	3595	10.80		
4600	2937	3234	8.04	3288	8.44	3340	8.84	3394													

Wheel Diameter = 18.25 in.
 Outlet Area = 1.91 sq. ft. inside
 Maximum BHP = .394 x (RPM/1000)³
 Tip Speed, fpm = 4.78 x RPM

Size

1825 SISW

Class I RPM 2657
 Class II RPM 3244

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		1/2"SP		3/4"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP		2"SP		2-1/4"SP		2-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	523	510	0.05	640	0.10																
1200	627	560	0.07	679	0.12	780	0.18														
1400	732	614	0.09	719	0.15	818	0.21	902	0.28												
1600	836	670	0.12	766	0.18	856	0.25	941	0.32	1015	0.39	1087	0.47								
1800	941	728	0.15	819	0.22	899	0.29	979	0.37	1054	0.45	1121	0.53	1185	0.62						
2000	1045	788	0.18	874	0.26	949	0.34	1020	0.42	1092	0.51	1159	0.60	1221	0.69	1279	0.79	1337	0.88		
2200	1150	851	0.22	930	0.31	1002	0.40	1067	0.49	1133	0.58	1198	0.67	1260	0.77	1317	0.88	1371	0.98	1424	1.08
2400	1255	914	0.27	987	0.37	1057	0.47	1119	0.56	1178	0.65	1239	0.75	1298	0.86	1356	0.97	1410	1.08	1461	1.19
2600	1359	979	0.33	1046	0.43	1112	0.54	1173	0.64	1229	0.74	1284	0.85	1339	0.95	1395	1.07	1448	1.19	1499	1.30
2800	1464	1045	0.40	1106	0.50	1169	0.62	1228	0.73	1282	0.84	1333	0.95	1384	1.06	1436	1.18	1488	1.30	1538	1.43
3000	1568	1111	0.47	1168	0.58	1226	0.70	1284	0.83	1336	0.95	1386	1.06	1434	1.18	1481	1.30	1529	1.42	1577	1.55
3200	1673	1178	0.56	1231	0.67	1285	0.79	1340	0.93	1392	1.06	1440	1.19	1486	1.31	1531	1.44	1575	1.56	1620	1.70
3400	1777	1246	0.66	1295	0.77	1345	0.90	1397	1.04	1448	1.18	1495	1.32	1540	1.45	1583	1.59	1625	1.72	1667	1.85
3600	1882	1313	0.77	1360	0.89	1407	1.02	1456	1.16	1504	1.31	1551	1.46	1594	1.61	1636	1.75	1677	1.89	1716	2.03
3800	1986	1381	0.89	1425	1.01	1470	1.15	1515	1.30	1561	1.45	1607	1.61	1650	1.77	1691	1.92	1730	2.07	1768	2.21
4000	2091	1449	1.02	1491	1.15	1533	1.29	1576	1.44	1620	1.60	1663	1.77	1706	1.94	1746	2.10	1785	2.26	1822	2.41
4200	2195	1517	1.17	1557	1.31	1597	1.45	1638	1.60	1679	1.77	1721	1.94	1762	2.12	1802	2.29	1840	2.46	1876	2.63
4400	2300	1586	1.33	1624	1.47	1662	1.62	1700	1.78	1740	1.95	1779	2.12	1819	2.31	1858	2.49	1896	2.67	1932	2.85
4600	2404	1654	1.51	1691	1.66	1727	1.81	1764	1.97	1801	2.14	1839	2.32	1877	2.51	1915	2.70	1951	2.90	1987	3.08
4800	2509	1723	1.70	1758	1.85	1793	2.01	1828	2.18	1863	2.35	1899	2.54	1936	2.73	1972	2.93	2008	3.13	2043	3.33
5000	2614	1792	1.91	1826	2.07	1859	2.23	1893	2.40	1926	2.58	1960	2.77	1995	2.96	2030	3.17	2065	3.37	2099	3.58
5400	2823	1930	2.38	1961	2.55	1992	2.72	2023	2.90	2054	3.09	2085	3.28	2117	3.48	2149	3.70	2181	3.91	2214	4.14
5800	3032	2068	2.92	2098	3.10	2127	3.29	2155	3.48	2184	3.67	2213	3.87	2242	4.08	2271	4.30	2301	4.53	2331	4.76
6200	3241	2207	3.54	2235	3.73	2262	3.93	2288	4.13	2315	4.33	2342	4.54	2369	4.76	2396	4.98	2423	5.22	2451	5.46
6600	3450	2346	4.24	2372	4.45	2397	4.65	2423	4.87	2448	5.08	2473	5.30	2498	5.52	2523	5.76	2548	5.99	2574	6.24
7000	3659	2485	5.03	2510	5.25	2534	5.47	2558	5.69	2581	5.92	2605	6.15	2628	6.38	2652	6.62	2676	6.87	2699	7.12
7500	3920	2659	6.15	2682	6.39	2705	6.62	2727	6.86	2749	7.10	2771	7.34	2793	7.59	2815	7.84	2837	8.09	2859	8.36
8000	4182	2833	7.43	2855	7.68	2876	7.93	2897	8.18	2918	8.44	2938	8.69	2959	8.95	2979	9.22	3000	9.48	3020	9.75
Volume O.Vel		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP		7"SP		7-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2300	1202	1542	1.36	1645	1.60	1755	1.87														
2600	1359	1594	1.54	1683	1.79	1772	2.04	1864	2.33	1960	2.63	2058	2.96								
2800	1464	1633	1.68	1719	1.93	1802	2.20	1885	2.47	1969	2.77	2057	3.09	2147	3.43	2236	3.78				
3000	1568	1671	1.82	1759	2.10	1839	2.37	1916	2.65	1993	2.94	2070	3.25	2151	3.57	2234	3.92	2318	4.29		
3200	1673	1710	1.97	1797	2.26	1878	2.55	1953	2.84	2026	3.14	2098	3.45	2170	3.77	2244	4.11	2320	4.47	2398	4.84
3400	1777	1752	2.14	1835	2.43	1917	2.74	1993	3.05	2064	3.36	2133	3.68	2200	4.00	2267	4.33	2336	4.67	2406	5.04
3600	1882	1796	2.31	1876	2.62	1955	2.94	2031	3.27	2103	3.59	2171	3.92	2236	4.25	2299	4.58	2363	4.93	2427	5.29
3800	1986	1844	2.51	1919	2.82	1995	3.15	2069	3.49	2142	3.83	2210	4.17	2274	4.52	2336	4.86	2397	5.21	2458	5.58
4000	2091	1894	2.72	1965	3.04	2037	3.37	2109	3.72	2180	4.07	2248	4.43	2313	4.80	2375	5.16	2435	5.52	2494	5.89
4200	2195	1947	2.95	2014	3.28	2082	3.61	2151	3.96	2219	4.33	2286	4.70	2351	5.08	2413	5.46	2473	5.84	2532	6.23
4400	2300	2000	3.19	2066	3.53	2131	3.88	2195	4.23	2261	4.60	2326	4.99	2390	5.38	2452	5.77	2512	6.17	2570	6.57
4600	2404	2055	3.45	2119	3.81	2181	4.16	2243	4.52	2305	4.90	2367	5.29	2429	5.68	2490	6.09	2550	6.50	2608	6.92
4800	2509	2110	3.72	2172	4.09	2233	4.46	2292	4.83	2351	5.21	2411	5.60	2471	6.01	2530	6.43	2589	6.85	2646	7.28
5000	2614	2165	4.00	2227	4.39	2286	4.78	2344	5.16	2400	5.55	2457	5.95	2514	6.36	2572	6.78	2629	7.21	2685	7.65
5400	2823	2277	4.59	2338	5.03	2395	5.46	2450	5.88	2504	6.29	2557	6.71	2609	7.13	2661	7.56	2714	8.00	2767	8.46
5800	3032	2391	5.24	2449	5.72	2506	6.19	2559	6.66	2611	7.11	2662	7.56	2710	7.99	2759	8.44	2808	8.90	2856	9.36
6200	3241	2507	5.95	2563	6.47	2618	6.98	2670	7.49	2721	7.99	2770	8.47	2817	8.95	2863	9.42	2909	9.89	2954	10.37
6600	3450	2626	6.75	2679	7.29	2731	7.83	2782	8.38	2832	8.93	2880	9.46	2926	9.97	2971	10.48	3015	10.99	3058	11.49
7000	3659	2748	7.64	2797	8.19	2847	8.77	2896	9.34	2944	9.92	2991	10.51	3036	11.06	3080	11.62	3123	12.16	3165	12.69
7500	3920	2903	8.89	2948	9.46	2994	10.05	3040	10.66	3086	11.27	3131	11.90	3175	12.52	3219	13.13				
8000	4182	3062	10.31	3103	10.89	3145	11.49	3188	12.12	3231	12.77										
Volume O.Vel		8"SP		8-1/2"SP		9"SP		9-1/2"SP		10"SP		10-1/2"SP		11"SP		11-1/2"SP		12"SP		13"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3800	1986	2517	5.94	2578	6.33	2640	6.73	2703	7.14	2769	7.58	2834	8.02	2901	8.49	2967	8.96				
4000	2091	2550	6.26	2607	6.64	2664	7.04	2722	7.44	2781	7.86	2841	8.30	2904	8.76	2965	9.22	3029	9.71	3155	10.72
4200	2195	2587	6.60	2642	6.99	2696	7.39	2750	7.79	2805	8.21	2860	8.63	2916	9.07	2973	9.52	3032	10.00	3151	10.99
4400	2300	2625	6.96	2679	7.36	2732	7.77	2784	8.17	2836	8.59	2887	9.01	2940	9.45	2992	9.89	3046	10.35	3155	11.32
4600	2404	2664	7.34	2717	7.75	2771	8.17	2821	8.58	2872	9.01	2920	9.43	2971	9.87	3019	10.31	3070	10.77	3170	11.71
4800	2509	2703	7.72	2756	8.14	2809	8.58	2859	9.01	2909	9.44	2957	9.88	3005	10.32	3052	10.76	3100	11.23	3195	12.16
5000	2614	2741	8.10	2795	8.55	2847	9.00	2899	9.46	2947	9.89	2996	10.36	3042	10.80	3089	11.26	3135	11.71	3226	12.66
5400	2823	2819	8.92	2872	9.39	2924	9.87	2974	10.35	3025	10.84	3072	11.32	3120	11.81	3165	12.29				

Wheel Diameter = 20.00 in.
 Outlet Area = 2.29 sq. ft. inside
 Maximum BHP = .622 x (RPM/1000)³
 Tip Speed, fpm = 5.24 x RPM

Size

2000 sisw

Class I RPM 2430
 Class II RPM 2956

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		1/2"SP		3/4"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP		2"SP		2-1/4"SP		2-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1400	609	502	0.08	613	0.14	706	0.21														
1600	696	543	0.10	643	0.17	734	0.24	814	0.31												
1800	783	586	0.12	676	0.20	763	0.27	840	0.36	911	0.44										
2000	870	629	0.15	714	0.23	793	0.31	870	0.40	937	0.49	1001	0.59								
2200	958	673	0.18	755	0.27	827	0.36	899	0.45	967	0.55	1028	0.65	1086	0.76						
2400	1045	719	0.22	797	0.32	865	0.41	931	0.51	996	0.61	1058	0.72	1114	0.83	1167	0.94	1220	1.06		
2600	1132	766	0.26	840	0.36	905	0.47	966	0.57	1027	0.68	1087	0.79	1143	0.91	1196	1.03	1245	1.15	1294	1.28
2800	1219	814	0.31	883	0.42	947	0.53	1004	0.64	1061	0.75	1117	0.87	1173	1.00	1225	1.12	1274	1.25	1321	1.38
3000	1306	863	0.36	927	0.48	989	0.60	1045	0.72	1097	0.84	1150	0.96	1203	1.09	1254	1.22	1304	1.36	1350	1.49
3200	1393	913	0.42	972	0.54	1031	0.67	1086	0.80	1137	0.93	1186	1.05	1235	1.19	1284	1.32	1333	1.47	1380	1.61
3400	1480	963	0.49	1018	0.61	1075	0.75	1128	0.89	1177	1.03	1224	1.16	1270	1.29	1316	1.44	1363	1.58	1409	1.74
3600	1567	1013	0.57	1065	0.70	1118	0.84	1171	0.99	1219	1.14	1264	1.28	1308	1.41	1351	1.56	1395	1.71	1439	1.86
3800	1654	1064	0.65	1113	0.79	1163	0.93	1213	1.09	1261	1.25	1305	1.40	1347	1.55	1388	1.69	1430	1.85	1471	2.00
4000	1741	1115	0.75	1161	0.89	1209	1.04	1257	1.20	1303	1.37	1347	1.53	1388	1.69	1427	1.84	1467	2.00	1506	2.16
4200	1828	1166	0.85	1210	0.99	1255	1.15	1301	1.32	1346	1.49	1389	1.67	1429	1.83	1468	2.00	1505	2.16	1543	2.32
4400	1915	1218	0.97	1260	1.11	1302	1.27	1345	1.44	1389	1.63	1431	1.81	1471	1.99	1509	2.16	1546	2.33	1581	2.50
4600	2002	1269	1.09	1310	1.24	1350	1.40	1391	1.58	1433	1.77	1474	1.96	1513	2.15	1550	2.34	1586	2.52	1621	2.69
4800	2089	1321	1.23	1360	1.38	1398	1.55	1437	1.73	1477	1.92	1517	2.12	1556	2.32	1593	2.52	1628	2.71	1662	2.89
5000	2176	1373	1.37	1410	1.53	1447	1.71	1484	1.89	1522	2.09	1561	2.29	1598	2.50	1635	2.71	1670	2.91	1703	3.11
5400	2350	1477	1.70	1511	1.87	1545	2.05	1579	2.24	1614	2.45	1650	2.66	1685	2.89	1720	3.11	1755	3.34	1787	3.56
5800	2524	1582	2.08	1614	2.26	1645	2.46	1677	2.65	1709	2.86	1741	3.08	1774	3.32	1807	3.56	1840	3.80	1872	4.04
6200	2698	1686	2.51	1716	2.71	1746	2.91	1775	3.12	1805	3.34	1835	3.56	1865	3.80	1896	4.05	1927	4.31	1958	4.57
6600	2873	1791	3.00	1819	3.21	1847	3.42	1875	3.64	1903	3.87	1930	4.10	1959	4.35	1987	4.60	2016	4.87	2046	5.14
7000	3047	1896	3.55	1923	3.77	1949	4.00	1975	4.23	2001	4.46	2028	4.71	2054	4.96	2081	5.22	2108	5.49	2135	5.77
7500	3264	2028	4.34	2053	4.57	2078	4.81	2102	5.05	2126	5.30	2150	5.55	2175	5.82	2199	6.08	2224	6.36	2249	6.65
8000	3482	2160	5.23	2184	5.48	2207	5.73	2230	5.99	2252	6.25	2275	6.52	2297	6.79	2320	7.07	2343	7.35	2366	7.65
8500	3700	2292	6.24	2315	6.51	2336	6.77	2358	7.04	2379	7.31	2400	7.59	2422	7.88	2443	8.17	2464	8.46	2486	8.77
9000	3917	2424	7.37	2446	7.65	2466	7.93	2486	8.22	2507	8.51	2527	8.79	2547	9.09	2567	9.39	2587	9.70	2607	10.02
9500	4135	2556	8.63	2577	8.93	2597	9.23	2616	9.53	2635	9.83	2654	10.13	2673	10.44	2692	10.76	2710	11.07	2729	11.39
Volume O.Vel		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP		7"SP		7-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2800	1219	1411	1.65																		
3000	1306	1437	1.77	1521	2.06																
3200	1393	1466	1.91	1546	2.20	1625	2.51														
3400	1480	1495	2.04	1574	2.35	1649	2.67	1723	3.00												
3600	1567	1524	2.19	1604	2.52	1677	2.84	1748	3.18	1818	3.53	1889	3.90								
3800	1654	1554	2.34	1634	2.68	1707	3.03	1776	3.37	1843	3.73	1909	4.09	1976	4.48						
4000	1741	1585	2.50	1663	2.85	1736	3.21	1805	3.58	1871	3.94	1934	4.31	1997	4.70	2060	5.10				
4200	1828	1617	2.67	1693	3.03	1765	3.41	1835	3.79	1900	4.17	1962	4.55	2023	4.94	2082	5.34	2143	5.76		
4400	1915	1652	2.85	1724	3.22	1795	3.61	1864	4.00	1930	4.40	1992	4.80	2051	5.20	2109	5.61	2166	6.03	2223	6.45
4600	2002	1689	3.05	1757	3.43	1826	3.82	1893	4.22	1959	4.64	2021	5.06	2080	5.47	2137	5.89	2193	6.32	2247	6.75
4800	2089	1728	3.27	1793	3.64	1858	4.04	1924	4.46	1989	4.89	2051	5.32	2110	5.75	2166	6.19	2221	6.62	2275	7.07
5000	2176	1767	3.49	1830	3.88	1892	4.28	1956	4.71	2018	5.14	2080	5.59	2140	6.04	2196	6.49	2250	6.94	2303	7.40
5400	2350	1849	3.98	1908	4.40	1966	4.82	2024	5.24	2082	5.69	2140	6.15	2198	6.63	2254	7.11	2310	7.61	2362	8.09
5800	2524	1933	4.52	1990	4.97	2045	5.41	2099	5.86	2152	6.32	2206	6.79	2260	7.28	2314	7.78	2367	8.29	2420	8.81
6200	2698	2017	5.09	2073	5.58	2126	6.06	2178	6.54	2228	7.02	2278	7.50	2328	7.99	2379	8.50	2429	9.03	2480	9.57
6600	2873	2103	5.69	2157	6.24	2210	6.76	2260	7.28	2308	7.79	2355	8.29	2402	8.80	2449	9.32	2496	9.86	2543	10.40
7000	3047	2189	6.35	2242	6.93	2294	7.51	2343	8.07	2390	8.62	2436	9.15	2480	9.68	2525	10.22	2569	10.77	2613	11.32
7500	3264	2300	7.25	2350	7.87	2400	8.50	2448	9.12	2495	9.73	2538	10.30	2581	10.88	2624	11.46	2665	12.02	2706	12.60
8000	3482	2413	8.27	2461	8.91	2508	9.57	2554	10.24	2600	10.91	2643	11.54	2685	12.17	2726	12.80	2766	13.40	2805	14.02
8500	3700	2529	9.40	2574	10.07	2618	10.75	2662	11.45	2706	12.16	2749	12.87	2790	13.55	2830	14.23	2869	14.88	2907	15.54
9000	3917	2647	10.66	2689	11.34	2731	12.05	2773	12.78	2814	13.52	2856	14.27	2896	15.01	2935	15.74				
9500	4135	2767	12.06	2806	12.76	2845	13.48	2885	14.23	2924	15.00										
Volume O.Vel		8"SP		8-1/2"SP		9"SP		9-1/2"SP		10"SP		10-1/2"SP		11"SP		11-1/2"SP		12"SP		13"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4600	2002	2301	7.19	2356	7.65																
4800	2089	2326	7.51	2379	7.97	2431	8.44	2484	8.93												
5000	2176	2354	7.85	2404	8.31	2455	8.80	2504	9.27	2555	9.78	2606	10.28								
5400	2350	2412	8.57	2462	9.07	2509	9.55	2557	10.06	2603	10.55	2650	11.07	2695	11.58	2742	12.12	2788	12.66	2885	13.81
5800	2524	2471	9.33	2520	9.85	2569	10.38	2614	10.89	2660	11.42	2703	11.94	2748	12.49	2790	13.01	2834	13.57	2919	14.68
6200	2698	2529	10.11	2579	10.67	2626	11.22	2673	11.78	2718	12.34	2762	12.90	2805	13.45	2847	14.01	2888	14.57		
6600	2873	2591	10.96	2638	11.54	2685	12.11	2732	12.71	2776	13.29	2821	13.89	2863	14.47	2906	15.08	2946	15.65		
7000	3047	2657	11.89	2702	12.47	2746	13.07	2791	13.67	2835	14.28	2879	14.91	2921	15.						

Performance Data

Wheel Diameter = 22.25 in.
 Outlet Area = 2.85 sq. ft. inside
 Maximum BHP = 1.07 x (RPM/1000)³
 Tip Speed, fpm = 5.83 x RPM

Size

2225 SISW

Design 5010 Centrifugal Airfoil Fans

Class I RPM 2180
 Class II RPM 2669
 Class III RPM 3357

Volume		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	352	367	0.05																		
1500	527	420	0.08	477	0.11	526	0.15	574	0.19												
2000	703	491	0.13	536	0.17	580	0.21	623	0.25	662	0.30	698	0.34	733	0.39						
2500	879	569	0.19	609	0.24	646	0.29	681	0.34	716	0.39	751	0.45	784	0.50	845	0.62	902	0.74		
3000	1055	651	0.27	687	0.33	721	0.40	752	0.46	782	0.51	811	0.57	840	0.64	899	0.77	954	0.90	1005	1.04
3500	1231	738	0.39	768	0.45	799	0.53	829	0.60	856	0.67	882	0.74	908	0.81	958	0.94	1008	1.09	1058	1.25
4000	1407	828	0.54	854	0.61	880	0.68	907	0.77	933	0.85	958	0.93	982	1.01	1027	1.17	1071	1.32	1115	1.49
4500	1582	919	0.72	942	0.80	965	0.88	989	0.97	1012	1.06	1036	1.15	1059	1.25	1102	1.43	1143	1.61	1182	1.78
5000	1758	1012	0.95	1032	1.03	1053	1.12	1073	1.21	1095	1.31	1116	1.41	1137	1.51	1179	1.73	1218	1.93	1255	2.12
5500	1934	1105	1.23	1123	1.32	1142	1.41	1161	1.51	1180	1.61	1199	1.71	1218	1.82	1257	2.05	1295	2.28	1331	2.51
6000	2110	1199	1.56	1216	1.66	1233	1.76	1250	1.86	1267	1.96	1284	2.07	1302	2.19	1337	2.43	1373	2.68	1408	2.93
6500	2286	1293	1.95	1309	2.05	1325	2.16	1340	2.27	1356	2.38	1372	2.49	1388	2.61	1420	2.86	1453	3.12	1486	3.39
7000	2462	1388	2.40	1402	2.51	1417	2.62	1432	2.73	1446	2.85	1461	2.97	1476	3.10	1505	3.35	1535	3.62	1566	3.91
7500	2637	1483	2.91	1496	3.03	1510	3.15	1524	3.27	1537	3.40	1551	3.52	1565	3.65	1592	3.91	1620	4.19	1648	4.49
8000	2813	1578	3.50	1591	3.63	1604	3.75	1617	3.88	1629	4.01	1642	4.14	1655	4.28	1680	4.55	1706	4.84	1732	5.14
8500	2989	1673	4.16	1686	4.30	1698	4.43	1710	4.57	1722	4.70	1734	4.84	1746	4.98	1770	5.27	1794	5.57	1818	5.88
9000	3165	1769	4.91	1781	5.05	1792	5.19	1803	5.33	1815	5.48	1826	5.62	1837	5.77	1860	6.07	1882	6.38	1905	6.70
9500	3341	1864	5.74	1876	5.89	1887	6.04	1897	6.19	1908	6.34	1919	6.49	1930	6.64	1951	6.96	1972	7.27	1994	7.60
10000	3517	1960	6.66	1971	6.82	1982	6.98	1992	7.13	2002	7.29	2012	7.45	2022	7.61	2042	7.93	2063	8.27	2083	8.61
10500	3692	2056	7.68	2066	7.84	2077	8.01	2086	8.17	2096	8.33	2106	8.50	2116	8.67	2135	9.01	2154	9.35	2173	9.70
11000	3868	2152	8.79	2162	8.97	2172	9.14	2181	9.31	2190	9.48	2200	9.65	2209	9.83	2227	10.18	2245	10.54	2264	10.90
11500	4044	2248	10.01	2258	10.19	2267	10.38	2276	10.56	2285	10.74	2294	10.91	2303	11.09	2321	11.47	2338	11.83	2355	12.21
12000	4220	2344	11.35	2353	11.53	2362	11.72	2371	11.91	2380	12.10	2388	12.28	2397	12.47	2414	12.85	2430	13.24	2447	13.62
13000	4572	2537	14.36	2545	14.56	2553	14.76	2562	14.97	2570	15.18	2578	15.38	2586	15.57	2601	15.98	2617	16.39	2632	16.81
14000	4923	2730	17.86	2737	18.08	2745	18.29	2753	18.51	2760	18.74	2768	18.96	2776	19.18	2790	19.61	2804	20.04	2818	20.49
Volume		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1055	1052	1.18	1146	1.48																
3500	1231	1105	1.41	1191	1.73	1271	2.06														
4000	1407	1159	1.66	1244	2.02	1322	2.38	1394	2.75	1463	3.14										
4500	1582	1220	1.96	1298	2.32	1375	2.74	1447	3.15	1513	3.56	1576	3.98	1638	4.41	1701	4.86				
5000	1758	1290	2.31	1360	2.71	1430	3.13	1500	3.57	1566	4.03	1628	4.48	1687	4.93	1743	5.40	1799	5.87	1856	6.37
5500	1934	1365	2.73	1429	3.15	1492	3.58	1556	4.04	1620	4.52	1681	5.01	1740	5.51	1796	6.01	1849	6.51	1901	7.02
6000	2110	1441	3.17	1502	3.64	1561	4.11	1619	4.58	1677	5.07	1736	5.59	1793	6.12	1849	6.66	1903	7.20	1954	7.74
6500	2286	1518	3.66	1578	4.19	1634	4.70	1689	5.20	1742	5.71	1796	6.24	1850	6.79	1903	7.35	1956	7.93	2007	8.51
7000	2462	1596	4.20	1655	4.78	1710	5.34	1762	5.89	1812	6.42	1861	6.97	1911	7.53	1961	8.11	2011	8.71	2060	9.32
7500	2637	1676	4.79	1733	5.42	1786	6.04	1837	6.63	1885	7.21	1932	7.79	1978	8.37	2024	8.96	2071	9.58	2117	10.20
8000	2813	1758	5.46	1811	6.11	1864	6.78	1913	7.43	1960	8.07	2006	8.69	2050	9.30	2093	9.92	2136	10.54	2179	11.18
8500	2989	1842	6.20	1892	6.87	1942	7.58	1990	8.29	2037	8.98	2081	9.65	2124	10.31	2165	10.97	2206	11.61	2246	12.27
9000	3165	1928	7.02	1975	7.72	2022	8.45	2069	9.21	2114	9.95	2157	10.68	2199	11.38	2239	12.09	2279	12.78	2317	13.46
9500	3341	2015	7.94	2058	8.65	2103	9.40	2147	10.18	2192	10.98	2234	11.77	2275	12.53	2315	13.28	2353	14.03	2390	14.74
10000	3517	2103	8.95	2144	9.68	2186	10.44	2228	11.25	2270	12.07	2312	12.91	2352	13.74	2391	14.54	2429	15.33	2465	16.11
10500	3692	2192	10.06	2231	10.80	2270	11.58	2310	12.41	2350	13.26	2390	14.12	2429	15.00	2468	15.88	2505	16.71	2541	17.55
11000	3868	2282	11.27	2319	12.03	2356	12.83	2393	13.66	2431	14.54	2470	15.44	2508	16.34	2545	17.26	2582	18.18	2617	19.05
11500	4044	2373	12.59	2407	13.37	2442	14.18	2478	15.04	2514	15.92	2551	16.84	2587	17.79	2623	18.73	2659	19.69	2694	20.64
12000	4220	2464	14.02	2497	14.82	2530	15.66	2564	16.52	2598	17.42	2633	18.36	2668	19.32	2703	20.31	2737	21.29	2772	22.29
13000	4572	2647	17.22	2678	18.08	2708	18.95	2739	19.86	2770	20.78	2801	21.75	2833	22.74	2865	23.77	2897	24.82	2929	25.88
14000	4923	2832	20.93	2860	21.83	2889	22.76	2917	23.69	2945	24.67	2974	25.65	3003	26.68	3032	27.73	3061	28.82	3091	29.92
Volume		7"SP		8"SP		9"SP		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		21"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5500	1934	1952	7.54	2054	8.62																
6000	2110	2003	8.29	2097	9.39	2190	10.55														
6500	2286	2056	9.10	2149	10.28	2237	11.47	2323	12.69												
7000	2462	2110	9.95	2202	11.20	2289	12.46	2372	13.73	2531	16.36										
7500	2637	2164	10.84	2256	12.18	2343	13.52	2425	14.87	2578	17.60	2725	20.42								
8000	2813	2223	11.84	2310	13.20	2396	14.62	2478	16.06	2631	18.92	2771	21.82	2909	24.86						
8500	2989	2287	12.94	2368	14.32	2450	15.77	2531	17.26	2683	20.30	2823	23.36	2954	26.43	3084	29.66				
9000	3165	2356	14.15	2432	15.56	2508	17.03	2585	18.56	2736	21.73	2877	24.97	3005	28.16	3129	31.43	3251	34.83	3313	36.62
9500	3341	2427	15.47	2499	16.92	2571	18.41	2644	19.96	2789	23.22	2929	26.61	3058	29.98	3179	33.35	3296	36.80	3355	38.61
10000	3517	2501	16.87	2570	18.39	2639	19.92	2707	21.50	2845	24.81	2982	28.30	3111	31.84	3232	35.38	3346	38.94		
10500	3692	2576	18.36	2643	19.97	2709	21.56	2774	23.17	2904	26.52	3036	30.08	3164	33.75	3285	37.46				
11000	3868	2652	19.95	2719	21.65	2782	23.32	2844	24.98												

Wheel Diameter = 24.50 in.
 Outlet Area = 3.45 sq. ft. inside
 Maximum BHP = 1.59 x (RPM/1000)³
 Tip Speed, fpm = 6.41 x RPM

Size

2450 sisw

Design 5010 Centrifugal Airfoil Fans

Class I RPM 1988
 Class II RPM 2428
 Class III RPM 3054

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	580	410	0.11	459	0.15	503	0.20	541	0.24	574	0.28										
2500	725	466	0.16	507	0.20	547	0.26	585	0.31	620	0.37	652	0.42	681	0.48	736	0.59				
3000	870	527	0.22	564	0.28	598	0.34	631	0.39	664	0.46	696	0.52	726	0.59	781	0.73	827	0.85	873	0.99
3500	1015	591	0.30	624	0.37	655	0.44	685	0.50	714	0.57	742	0.64	770	0.71	824	0.87	874	1.03	919	1.18
4000	1160	658	0.41	687	0.482	715	0.56	743	0.63	769	0.71	795	0.78	820	0.86	869	1.03	918	1.20	962	1.38
4500	1305	725	0.53	752	0.62	778	0.70	803	0.79	828	0.88	851	0.96	874	1.05	919	1.22	963	1.40	1007	1.60
5000	1450	794	0.68	819	0.78	843	0.88	866	0.97	889	1.07	911	1.16	932	1.26	974	1.44	1014	1.63	1054	1.83
5500	1595	863	0.87	887	0.97	909	1.08	931	1.18	952	1.29	972	1.39	992	1.50	1031	1.71	1069	1.91	1106	2.12
6000	1740	933	1.08	955	1.20	976	1.31	996	1.43	1016	1.54	1035	1.65	1054	1.77	1091	2.00	1127	2.23	1161	2.45
6500	1885	1004	1.33	1024	1.46	1044	1.58	1063	1.71	1082	1.83	1100	1.95	1118	2.08	1152	2.33	1186	2.57	1219	2.82
7000	2030	1075	1.62	1094	1.75	1112	1.89	1131	2.02	1148	2.16	1165	2.29	1182	2.42	1215	2.69	1247	2.96	1278	3.22
7500	2175	1146	1.95	1164	2.09	1182	2.24	1199	2.38	1216	2.52	1232	2.67	1248	2.81	1279	3.10	1310	3.38	1339	3.67
8000	2320	1217	2.32	1235	2.48	1251	2.63	1268	2.78	1284	2.94	1299	3.09	1315	3.24	1345	3.55	1374	3.85	1402	4.16
8500	2465	1289	2.74	1306	2.91	1321	3.07	1337	3.24	1352	3.40	1367	3.56	1382	3.72	1410	4.04	1438	4.37	1465	4.69
9000	2610	1361	3.21	1377	3.39	1392	3.56	1407	3.73	1421	3.91	1436	4.08	1450	4.25	1477	4.59	1504	4.94	1529	5.28
9500	2755	1434	3.74	1448	3.92	1463	4.11	1477	4.28	1491	4.47	1504	4.65	1518	4.83	1544	5.19	1570	5.55	1595	5.92
10000	2900	1506	4.32	1520	4.51	1534	4.70	1547	4.89	1561	5.09	1574	5.28	1587	5.47	1612	5.85	1637	6.24	1660	6.61
11000	3190	1651	5.66	1664	5.87	1676	6.08	1689	6.30	1701	6.50	1713	6.71	1726	6.93	1749	7.34	1772	7.77	1794	8.18
12000	3480	1796	7.25	1809	7.49	1820	7.71	1832	7.95	1843	8.18	1854	8.41	1865	8.64	1887	9.10	1909	9.56	1930	10.02
13000	3771	1942	9.13	1953	9.39	1964	9.64	1975	9.88	1986	10.14	1996	10.39	2007	10.64	2027	11.13	2047	11.64	2066	12.12
14000	4061	2088	11.32	2099	11.59	2109	11.87	2119	12.13	2129	12.40	2139	12.67	2149	12.95	2167	13.47	2186	14.01	2205	14.55
15000	4351	2234	13.84	2244	14.13	2254	14.42	2264	14.72	2273	15.00	2282	15.28	2291	15.57	2309	16.16	2327	16.72	2344	17.30
16000	4641	2381	16.71	2390	17.02	2399	17.33	2408	17.65	2417	17.95	2426	18.25	2434	18.55	2451	19.18	2468	19.79	2484	20.39
17000	4931	2527	19.96	2536	20.28	2545	20.61	2553	20.95	2562	21.29	2570	21.60	2578	21.92	2594	22.57	2610	23.24	2625	23.87
18000	5221	2674	23.61	2682	23.95	2690	24.30	2698	24.65	2707	25.01	2715	25.36	2722	25.69	2737	26.37	2752	27.07	2768	27.77
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3500	1015	959	1.33	1037	1.64																
4000	1160	1005	1.56	1080	1.91	1148	2.25														
4500	1305	1048	1.79	1126	2.20	1194	2.59	1255	2.97	1316	3.37										
5000	1450	1093	2.04	1169	2.49	1239	2.93	1303	3.38	1359	3.80	1413	4.23	1468	4.68						
5500	1595	1142	2.33	1214	2.80	1282	3.28	1346	3.77	1406	4.27	1460	4.74	1510	5.20	1559	5.67	1609	6.17		
6000	1740	1195	2.68	1261	3.14	1327	3.66	1390	4.19	1449	4.71	1505	5.26	1558	5.79	1606	6.29	1651	6.80	1695	7.31
6500	1885	1251	3.06	1313	3.55	1374	4.07	1434	4.62	1494	5.20	1548	5.77	1601	6.35	1653	6.94	1700	7.51	1742	8.04
7000	2030	1309	3.49	1368	4.01	1425	4.54	1481	5.10	1538	5.70	1593	6.32	1645	6.93	1694	7.55	1743	8.17	1789	8.80
7500	2175	1368	3.95	1425	4.52	1479	5.07	1532	5.65	1585	6.25	1637	6.88	1689	7.54	1738	8.20	1786	8.86	1832	9.53
8000	2320	1429	4.46	1483	5.07	1536	5.66	1586	6.26	1636	6.87	1685	7.51	1734	8.19	1783	8.89	1830	9.59	1875	10.29
8500	2465	1492	5.02	1543	5.66	1593	6.30	1642	6.93	1690	7.57	1736	8.22	1782	8.89	1828	9.60	1874	10.33	1919	11.08
9000	2610	1555	5.62	1604	6.31	1653	6.99	1700	7.67	1745	8.33	1790	9.00	1834	9.68	1877	10.39	1920	11.13	1964	11.90
9500	2755	1619	6.28	1667	7.01	1713	7.73	1758	8.44	1802	9.15	1845	9.85	1888	10.56	1929	11.28	1970	12.02	2011	12.79
10000	2900	1684	6.99	1730	7.75	1774	8.51	1818	9.27	1860	10.02	1902	10.76	1943	11.50	1983	12.25	2022	13.00	2061	13.77
11000	3190	1816	8.60	1859	9.43	1900	10.27	1941	11.11	1980	11.95	2019	12.78	2057	13.58	2095	14.39	2132	15.21	2168	16.02
12000	3480	1950	10.47	1990	11.37	2029	12.28	2067	13.19	2104	14.12	2140	15.02	2176	15.92	2212	16.82	2246	17.70	2280	18.58
13000	3771	2086	12.63	2124	13.61	2160	14.58	2196	15.56	2231	16.56	2265	17.54	2299	18.52	2332	19.52	2365	20.47	2397	21.45
14000	4061	2223	15.07	2258	16.14	2293	17.21	2327	18.25	2360	19.30	2393	20.37	2424	21.41	2456	22.49	2487	23.53	2517	24.59
15000	4351	2361	17.87	2395	19.01	2427	20.13	2460	21.27	2491	22.39	2522	23.52	2552	24.65	2582	25.78	2611	26.91	2640	28.04
16000	4641	2501	21.01	2532	22.21	2564	23.45	2594	24.62	2624	25.84	2653	27.03	2682	28.24	2710	29.43	2739	30.65	2766	31.83
17000	4931	2641	24.51	2671	25.83	2701	27.09	2730	28.39	2758	29.65	2786	30.94	2813	32.19	2841	33.49	2867	34.73	2894	36.02
18000	5221	2782	28.44	2811	29.81	2839	31.17	2866	32.52	2894	33.88	2920	35.21	2947	36.58	2972	37.90	2998	39.26	3023	40.59
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		21"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6000	1740	1741	7.85																		
6500	1885	1784	8.59	1866	9.71																
7000	2030	1833	9.43	1911	10.58	1987	11.77														
7500	2175	1876	10.20	1960	11.53	2034	12.78	2104	14.02												
8000	2320	1919	10.99	2003	12.42	2082	13.83	2151	15.16	2284	17.87										
8500	2465	1963	11.83	2045	13.31	2125	14.83	2199	16.33	2328	19.15	2454	22.10								
9000	2610	2008	12.70	2089	14.26	2167	15.84	2242	17.44	2376	20.56	2495	23.52	2616	26.77						
9500	2755	2053	13.60	2134	15.25	2211	16.90	2284	18.56	2422	21.93	2542	25.12	2653	28.27	2770	31.75				
10000	2900	2100	14.58	2178	16.26	2255	18.00	2328	19.74	2465	23.26	2591	26.79	2701	30.09	2805	33.39	2915	37.07		
11000	3190	2204	16.84	2275	18.53	2346	20.33	2416	22.22	2551	26.04	2677	29.90	2793	33.76	2898	37.45	2994	41.02	3042	42.83
12000	3480	2315	19.48	2381	21.25	2446															

Wheel Diameter = 27.00 in.
 Outlet Area = 4.19 sq. ft. inside
 Maximum BHP = 2.58 x (RPM/1000)³
 Tip Speed, fpm = 7.07 x RPM

Size

2700 SISW

Class I RPM 1804
 Class II RPM 2203
 Class III RPM 2771

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	716	420	0.19	458	0.24	494	0.31	529	0.37	560	0.44	590	0.51	615	0.57						
3500	836	465	0.25	499	0.31	531	0.38	562	0.45	593	0.53	622	0.61	649	0.69	698	0.84	741	0.99		
4000	955	513	0.32	543	0.40	573	0.48	601	0.55	628	0.63	655	0.72	682	0.80	731	0.98	776	1.16	816	1.33
4500	1075	561	0.42	590	0.50	617	0.59	643	0.67	668	0.76	692	0.84	716	0.94	764	1.13	809	1.33	851	1.54
5000	1194	611	0.53	637	0.62	662	0.72	687	0.81	710	0.91	733	1.00	755	1.09	799	1.30	842	1.51	883	1.74
5500	1313	662	0.66	686	0.76	710	0.87	732	0.97	754	1.08	775	1.18	796	1.28	837	1.49	876	1.71	916	1.95
6000	1433	713	0.81	736	0.92	758	1.04	779	1.15	800	1.27	820	1.38	839	1.49	878	1.72	914	1.95	951	2.19
6500	1552	765	0.98	786	1.11	807	1.23	827	1.36	846	1.48	865	1.60	884	1.73	920	1.97	955	2.22	989	2.46
7000	1672	817	1.18	837	1.32	857	1.45	876	1.59	894	1.72	912	1.85	930	1.99	964	2.26	997	2.52	1030	2.78
7500	1791	869	1.41	888	1.56	907	1.70	925	1.84	943	1.99	960	2.13	977	2.28	1009	2.56	1041	2.85	1072	3.13
8000	1911	922	1.67	940	1.83	958	1.98	975	2.13	992	2.29	1008	2.44	1025	2.59	1056	2.90	1086	3.20	1115	3.50
8500	2030	975	1.97	992	2.13	1009	2.29	1026	2.45	1042	2.62	1057	2.78	1073	2.94	1103	3.27	1132	3.59	1160	3.91
9000	2149	1028	2.29	1045	2.46	1061	2.64	1077	2.81	1092	2.98	1107	3.15	1122	3.32	1151	3.67	1178	4.01	1205	4.36
9500	2269	1081	2.65	1097	2.83	1113	3.02	1128	3.20	1143	3.38	1157	3.56	1171	3.74	1199	4.10	1226	4.47	1252	4.83
10000	2388	1135	3.05	1150	3.25	1165	3.44	1180	3.63	1194	3.82	1208	4.01	1221	4.20	1248	4.58	1274	4.96	1299	5.34
11000	2627	1243	3.97	1257	4.18	1270	4.40	1284	4.61	1297	4.82	1310	5.03	1323	5.24	1347	5.66	1371	6.08	1395	6.49
12000	2866	1351	5.07	1364	5.30	1376	5.53	1389	5.76	1401	5.99	1413	6.22	1425	6.45	1448	6.91	1471	7.37	1492	7.82
13000	3105	1459	6.36	1471	6.61	1483	6.86	1495	7.11	1506	7.36	1517	7.61	1528	7.86	1550	8.35	1571	8.85	1592	9.35
14000	3343	1568	7.85	1579	8.12	1590	8.39	1601	8.66	1612	8.93	1622	9.20	1633	9.47	1653	10.00	1673	10.54	1692	11.07
15000	3582	1676	9.57	1687	9.87	1697	10.15	1708	10.43	1718	10.73	1728	11.02	1737	11.30	1757	11.89	1776	12.45	1795	13.03
16000	3821	1785	11.53	1795	11.84	1805	12.15	1815	12.45	1824	12.76	1834	13.08	1843	13.38	1861	13.99	1880	14.61	1897	15.21
17000	4060	1894	13.74	1904	14.07	1914	14.41	1922	14.73	1931	15.05	1940	15.38	1949	15.72	1966	16.36	1984	17.01	2000	17.66
18000	4299	2004	16.23	2013	16.58	2022	16.93	2030	17.28	2039	17.62	2047	17.96	2056	18.31	2072	19.01	2088	19.68	2105	20.38
19000	4537	2113	19.00	2121	19.37	2130	19.74	2139	20.12	2147	20.47	2154	20.83	2162	21.19	2178	21.94	2194	22.65	2209	23.37
20000	4776	2222	22.08	2231	22.46	2239	22.85	2247	23.25	2255	23.64	2262	24.01	2270	24.39	2285	25.16	2300	25.94	2314	26.68
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4000	955	853	1.50																		
4500	1075	888	1.73	955	2.11																
5000	1194	921	1.96	991	2.40	1050	2.82														
5500	1313	954	2.20	1024	2.69	1087	3.17	1141	3.63	1196	4.12										
6000	1433	987	2.45	1056	2.98	1119	3.51	1178	4.05	1228	4.55	1277	5.06								
6500	1552	1023	2.72	1089	3.29	1152	3.86	1210	4.44	1264	5.02	1312	5.57	1357	6.11	1404	6.69				
7000	1672	1061	3.04	1123	3.61	1185	4.22	1243	4.85	1296	5.47	1347	6.09	1393	6.69	1436	7.28	1478	7.88	1522	8.51
7500	1791	1102	3.41	1160	3.98	1219	4.61	1275	5.27	1329	5.93	1380	6.60	1428	7.28	1473	7.94	1513	8.55	1552	9.17
8000	1911	1144	3.80	1200	4.40	1254	5.03	1309	5.71	1362	6.42	1412	7.12	1460	7.83	1506	8.55	1549	9.26	1589	9.93
8500	2030	1187	4.23	1241	4.87	1293	5.51	1344	6.19	1395	6.92	1445	7.67	1492	8.41	1537	9.16	1581	9.92	1623	10.69
9000	2149	1232	4.70	1284	5.37	1334	6.04	1382	6.73	1430	7.46	1478	8.23	1525	9.03	1570	9.81	1613	10.60	1655	11.41
9500	2269	1277	5.20	1327	5.91	1375	6.62	1422	7.33	1467	8.06	1513	8.84	1559	9.65	1603	10.49	1646	11.32	1687	12.16
10000	2388	1323	5.73	1371	6.49	1418	7.23	1463	7.97	1507	8.73	1550	9.50	1593	10.32	1637	11.18	1679	12.06	1721	12.95
11000	2627	1418	6.91	1462	7.75	1506	8.59	1548	9.41	1590	10.23	1630	11.05	1669	11.88	1708	12.73	1748	13.63	1787	14.58
12000	2866	1514	8.28	1556	9.19	1597	10.10	1636	11.01	1675	11.91	1713	12.79	1751	13.68	1787	14.58	1823	15.50	1859	16.43
13000	3105	1612	9.83	1652	10.82	1690	11.81	1728	12.80	1764	13.78	1800	14.75	1836	15.72	1870	16.68	1904	17.63	1938	18.61
14000	3343	1712	11.61	1749	12.67	1786	13.73	1821	14.79	1856	15.85	1890	16.91	1924	17.97	1956	18.99	1989	20.02	2021	21.07
15000	3582	1812	13.59	1848	14.72	1883	15.86	1916	17.01	1949	18.13	1981	19.27	2014	20.42	2045	21.53	2076	22.64	2106	23.76
16000	3821	1914	15.83	1948	17.03	1981	18.23	2013	19.44	2045	20.67	2075	21.86	2106	23.08	2136	24.30	2165	25.48	2194	26.71
17000	4060	2017	18.30	2049	19.59	2081	20.89	2111	22.15	2141	23.43	2171	24.74	2199	26.00	2228	27.30	2256	28.57	2284	29.86
18000	4299	2120	21.06	2151	22.44	2181	23.78	2210	25.14	2239	26.49	2267	27.84	2295	29.21	2322	30.55	2349	31.94	2376	33.27
19000	4537	2224	24.12	2253	25.54	2282	26.99	2310	28.41	2338	29.83	2365	31.27	2391	32.68	2418	34.12	2443	35.54	2469	36.98
20000	4776	2328	27.45	2357	28.97	2384	30.49	2411	31.98	2438	33.50	2463	34.98	2489	36.49	2514	37.97	2539	39.48	2564	40.99
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		21"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7500	1791	1592	9.82																		
8000	1911	1627	10.61	1700	11.96																
8500	2030	1664	11.45	1734	12.85	1803	14.29														
9000	2149	1696	12.23	1771	13.80	1837	15.28	1902	16.80												
9500	2269	1727	13.00	1804	14.71	1873	16.34	1936	17.91	2061	21.22										
10000	2388	1760	13.82	1836	15.59	1907	17.37	1972	19.08	2090	22.40										
11000	2627	1827	15.55	1901	17.46	1971	19.38	2038	21.33	2162	25.17	2268	28.77	2377	32.64						
12000	2866	1895	17.40	1967	19.45	2037	21.55	2103	23.64	2227	27.86	2342	32.09	2440	35.98	2536	40.01				
13000	3105	1971	19.59	2037	21.65	2104	23.82	2169	26.08	2292	30.62	2406	35.17	2512	39.73	2604	44.00	2692	48.23	2737	50.45
14000	3343	2052	22.08	2114	24.18	2175	26.36	2236	28.67	2357	33.50	2470	38.37	2575	43.24	2674	48.14				

Wheel Diameter = 30.00 in.
 Outlet Area = 5.17 sq. ft. inside
 Maximum BHP = 4.37 x (RPM/1000)³
 Tip Speed, fpm = 7.85 x RPM

Size

3000 sisw

Design 5010 Centrifugal Airfoil Fans

Class I RPM 1623
 Class II RPM 1982
 Class III RPM 2493

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	580	335	0.16	375	0.23	411	0.29	442	0.36	469	0.42										
4000	774	397	0.27	429	0.34	460	0.42	490	0.51	518	0.59	545	0.68	569	0.77	611	0.94				
5000	967	466	0.41	493	0.51	519	0.60	544	0.70	569	0.79	593	0.90	617	1.01	661	1.23	702	1.46	737	1.67
6000	1161	537	0.61	562	0.72	584	0.84	607	0.95	628	1.06	649	1.18	669	1.29	710	1.54	749	1.81	786	2.07
7000	1354	611	0.87	633	1.00	653	1.14	673	1.27	692	1.41	711	1.54	730	1.67	765	1.93	800	2.21	835	2.50
8000	1548	686	1.20	706	1.36	724	1.51	743	1.66	760	1.82	777	1.97	794	2.12	827	2.42	858	2.72	889	3.03
9000	1741	762	1.62	780	1.80	797	1.97	814	2.14	830	2.31	846	2.48	861	2.66	891	3.00	920	3.34	949	3.68
10000	1934	839	2.14	856	2.33	872	2.52	887	2.71	902	2.90	916	3.09	931	3.28	959	3.67	985	4.05	1012	4.43
11000	2128	917	2.75	932	2.96	947	3.18	961	3.39	975	3.60	988	3.81	1002	4.02	1028	4.44	1053	4.86	1078	5.28
12000	2321	995	3.48	1009	3.72	1022	3.95	1036	4.18	1049	4.41	1061	4.63	1074	4.87	1098	5.32	1122	5.78	1145	6.24
13000	2515	1073	4.34	1086	4.60	1099	4.84	1111	5.10	1123	5.34	1136	5.60	1147	5.84	1170	6.33	1193	6.83	1215	7.33
14000	2708	1151	5.34	1164	5.61	1176	5.88	1187	6.15	1199	6.42	1210	6.68	1222	6.96	1243	7.48	1264	8.01	1285	8.55
15000	2902	1230	6.48	1242	6.77	1253	7.06	1264	7.35	1275	7.64	1286	7.93	1296	8.21	1317	8.78	1337	9.36	1356	9.92
16000	3095	1309	7.78	1320	8.09	1331	8.39	1341	8.71	1351	9.01	1362	9.32	1372	9.63	1391	10.24	1410	10.84	1429	11.46
17000	3288	1388	9.24	1399	9.57	1409	9.90	1419	10.23	1429	10.56	1438	10.88	1448	11.21	1466	11.86	1485	12.52	1502	13.15
18000	3482	1468	10.89	1478	11.24	1487	11.58	1496	11.93	1506	12.28	1515	12.62	1524	12.96	1542	13.67	1559	14.34	1576	15.03
19000	3675	1547	12.72	1556	13.10	1565	13.46	1574	13.82	1583	14.19	1592	14.56	1601	14.92	1618	15.65	1634	16.37	1651	17.10
20000	3869	1626	14.75	1635	15.14	1644	15.53	1653	15.91	1661	16.29	1670	16.69	1678	17.07	1694	17.83	1710	18.61	1726	19.35
21000	4062	1706	16.99	1715	17.40	1723	17.82	1731	18.21	1739	18.61	1747	19.02	1755	19.43	1771	20.22	1786	21.03	1801	21.84
22000	4256	1786	19.46	1794	19.88	1802	20.32	1810	20.74	1817	21.15	1825	21.57	1833	22.00	1848	22.85	1862	23.68	1877	24.54
23000	4449	1865	22.15	1873	22.59	1881	23.05	1889	23.50	1896	23.93	1903	24.36	1911	24.80	1925	25.71	1939	26.57	1953	27.45
24000	4643	1945	25.08	1953	25.55	1960	26.02	1968	26.50	1975	26.95	1982	27.40	1989	27.85	2003	28.79	2016	29.70	2030	30.60
26000	5029	2105	31.72	2112	32.22	2119	32.72	2126	33.23	2133	33.76	2139	34.24	2145	34.72	2158	35.71	2171	36.73	2184	37.72
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	967	770	1.88																		
6000	1161	821	2.34	882	2.86	937	3.38														
7000	1354	868	2.81	931	3.43	988	4.06	1038	4.66	1085	5.25										
8000	1548	919	3.35	979	4.04	1036	4.75	1088	5.46	1137	6.18	1180	6.85	1220	7.52	1262	8.23				
9000	1741	976	4.01	1030	4.72	1084	5.49	1135	6.28	1183	7.07	1230	7.88	1273	8.68	1311	9.44	1348	10.19	1385	10.97
10000	1934	1037	4.80	1087	5.55	1136	6.32	1184	7.17	1232	8.04	1276	8.92	1319	9.80	1361	10.70	1400	11.59	1437	12.47
11000	2128	1102	5.70	1148	6.51	1194	7.34	1237	8.18	1281	9.08	1325	10.04	1368	11.01	1408	11.97	1447	12.94	1484	13.92
12000	2321	1168	6.70	1212	7.60	1254	8.50	1296	9.39	1336	10.31	1376	11.27	1417	12.28	1457	13.34	1495	14.39	1531	15.43
13000	2515	1236	7.82	1277	8.82	1317	9.79	1357	10.75	1395	11.72	1432	12.70	1469	13.72	1506	14.78	1543	15.89	1580	17.04
14000	2708	1305	9.09	1345	10.15	1383	11.21	1420	12.26	1456	13.30	1492	14.34	1527	15.39	1561	16.46	1595	17.57	1630	18.73
15000	2902	1376	10.49	1413	11.63	1449	12.77	1485	13.91	1520	15.03	1554	16.15	1587	17.26	1620	18.38	1652	19.50	1683	20.66
16000	3095	1447	12.06	1483	13.27	1518	14.49	1551	15.71	1584	16.91	1617	18.11	1649	19.30	1680	20.49	1711	21.66	1741	22.86
17000	3288	1520	13.80	1554	15.09	1587	16.38	1620	17.68	1651	18.96	1682	20.24	1713	21.51	1743	22.78	1772	24.02	1801	25.27
18000	3482	1593	15.71	1626	17.07	1657	18.43	1688	19.80	1719	21.19	1748	22.54	1778	23.88	1807	25.25	1835	26.57	1863	27.88
19000	3675	1667	17.82	1698	19.26	1729	20.70	1758	22.12	1787	23.56	1816	25.02	1844	26.45	1872	27.87	1899	29.32	1926	30.69
20000	3869	1741	20.13	1771	21.63	1801	23.13	1829	24.66	1857	26.17	1885	27.67	1912	29.20	1938	30.70	1965	32.21	1991	33.71
21000	4062	1816	22.63	1845	24.22	1873	25.82	1901	27.38	1928	28.97	1955	30.57	1980	32.13	2006	33.75	2031	35.31	2056	36.91
22000	4256	1891	25.36	1920	27.05	1946	28.68	1973	30.34	1999	32.01	2025	33.65	2050	35.34	2074	36.97	2099	38.66	2123	40.28
23000	4449	1967	28.35	1994	30.07	2020	31.80	2046	33.55	2071	35.25	2096	37.02	2120	38.71	2144	40.48	2167	42.17	2191	43.96
24000	4643	2043	31.54	2069	33.34	2095	35.19	2119	36.96	2144	38.78	2167	40.56	2191	42.38	2214	44.16	2237	46.00	2259	47.77
26000	5029	2196	38.69	2220	40.71	2244	42.63	2267	44.64	2290	46.53	2313	48.52	2334	50.42	2356	52.39	2378	54.32	2399	56.26
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		21"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9000	1741	1422	11.77																		
10000	1934	1470	13.29	1536	14.98	1604	16.81														
11000	2128	1521	14.93	1587	16.81	1647	18.63	1707	20.51												
12000	2321	1567	16.48	1636	18.63	1700	20.75	1757	22.74	1866	26.80										
13000	2515	1616	18.18	1683	20.45	1747	22.74	1808	25.06	1915	29.46	2015	33.82								
14000	2708	1664	19.93	1731	22.38	1794	24.83	1854	27.29	1966	32.23	2064	36.91	2156	41.58						
15000	2902	1715	21.87	1779	24.39	1842	27.01	1901	29.62	2013	34.89	2116	40.18	2206	45.15						
16000	3095	1771	24.08	1831	26.60	1891	29.29	1950	32.07	2060	37.66	2163	43.27	2258	48.89	2291	50.09	2342	54.13	2381	55.51
17000	3288	1830	26.54	1886	29.11	1942	31.79	1999	34.64	2108	40.56	2209	46.40	2305	52.42	2394	58.34	2472	63.86		
18000	3482	1891	29.23	1945	31.89	1998	34.60	2050	37.44	2156	43.51	2257	49.74	2350	55.95	2441	62.33				
19000	3675	1953	32.11	2005	34.89	2056	37.70	2106	40.57	2206	46.64	2305	53.17	2398	59.70	2486	66.28				
20000	3869	2016	35.18	2066	38.11	2116	41.04	2164	44.00	2258	50.10	2353	56.71	2446	63.59						
21000	4062	2081	38.46	2129	41.55	2177	44.62	2224	47.69	2315	53.94	2404	60.52	2491	67.39						

Wheel Diameter = 33.00 in.
 Outlet Area = 6.26 sq. ft. inside
 Maximum BHP = 7.52 x (RPM/1000)³
 Tip Speed, fpm = 8.64 x RPM

Class I RPM 1447
 Class II RPM 1769
 Class III RPM 2225

Size

3300 SISW

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	479	272	0.15	310	0.21	344	0.28														
4000	639	315	0.23	346	0.31	377	0.39	405	0.48	431	0.57	456	0.66								
5000	799	363	0.34	390	0.44	415	0.53	440	0.63	465	0.73	488	0.84	510	0.95	551	1.18				
6000	959	413	0.49	439	0.61	461	0.72	483	0.83	503	0.95	524	1.07	545	1.19	584	1.44	620	1.70	654	1.98
7000	1118	465	0.68	488	0.82	510	0.95	530	1.09	548	1.21	566	1.35	584	1.48	620	1.76	654	2.05	687	2.35
8000	1278	518	0.91	539	1.07	560	1.23	579	1.39	596	1.54	613	1.69	629	1.84	661	2.14	692	2.46	723	2.78
9000	1438	573	1.21	592	1.38	610	1.56	628	1.74	646	1.92	662	2.09	677	2.26	706	2.59	734	2.93	762	3.28
10000	1598	628	1.57	645	1.76	662	1.95	679	2.15	695	2.35	711	2.55	726	2.75	754	3.12	780	3.49	805	3.87
11000	1757	684	2.01	700	2.21	716	2.42	731	2.63	746	2.85	761	3.07	776	3.29	803	3.72	828	4.14	851	4.54
12000	1917	741	2.52	755	2.74	770	2.97	784	3.20	798	3.43	812	3.67	826	3.91	852	4.39	876	4.85	899	5.30
13000	2077	797	3.13	811	3.36	825	3.60	838	3.85	851	4.10	864	4.35	877	4.61	902	5.12	926	5.64	948	6.15
14000	2237	855	3.83	867	4.07	880	4.33	892	4.59	905	4.86	917	5.13	929	5.40	953	5.95	976	6.51	998	7.07
15000	2397	912	4.63	924	4.89	936	5.16	948	5.44	959	5.72	971	6.00	982	6.29	1004	6.88	1026	7.47	1048	8.07
16000	2556	970	5.54	981	5.82	992	6.10	1003	6.40	1014	6.69	1025	6.99	1036	7.30	1057	7.92	1078	8.55	1098	9.18
17000	2716	1028	6.58	1038	6.87	1049	7.17	1059	7.47	1070	7.78	1080	8.10	1090	8.42	1110	9.07	1130	9.73	1149	10.40
18000	2876	1086	7.73	1096	8.04	1106	8.35	1116	8.67	1125	8.99	1135	9.33	1145	9.66	1164	10.34	1183	11.04	1201	11.74
19000	3036	1144	9.02	1154	9.34	1163	9.67	1172	10.01	1181	10.34	1191	10.69	1200	11.04	1218	11.75	1236	12.47	1254	13.21
20000	3195	1203	10.44	1212	10.79	1220	11.13	1229	11.48	1238	11.83	1247	12.19	1255	12.56	1273	13.29	1290	14.06	1307	14.82
21000	3355	1261	12.01	1270	12.38	1278	12.73	1286	13.09	1295	13.47	1303	13.84	1311	14.21	1328	14.99	1344	15.78	1360	16.57
22000	3515	1319	13.74	1328	14.12	1336	14.49	1344	14.87	1352	15.25	1360	15.64	1367	16.03	1383	16.84	1399	17.65	1415	18.49
23000	3675	1378	15.63	1386	16.02	1394	16.42	1401	16.80	1409	17.20	1416	17.61	1424	18.01	1439	18.84	1454	19.69	1469	20.54
24000	3834	1436	17.68	1444	18.09	1452	18.51	1459	18.91	1466	19.32	1473	19.74	1481	20.17	1495	21.02	1510	21.90	1524	22.78
26000	4154	1554	22.33	1561	22.77	1568	23.22	1575	23.67	1581	24.10	1588	24.54	1594	25.00	1608	25.91	1621	26.84	1635	27.80
28000	4473	1671	27.74	1677	28.21	1684	28.69	1691	29.18	1697	29.65	1703	30.12	1709	30.60	1722	31.57	1734	32.56	1746	33.55
30000	4793	1789	33.97	1795	34.48	1801	34.99	1807	35.50	1813	36.03	1819	36.52	1824	37.02	1836	38.05	1847	39.11	1859	40.15
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7000	1118	718	2.65	776	3.29	860	4.51	911	5.27												
8000	1278	752	3.11	809	3.80	893	5.15	940	5.94	986	6.77	1030	7.62								
9000	1438	789	3.64	843	4.38	928	5.86	974	6.71	1018	7.58	1059	8.47	1099	9.39	1139	10.34				
10000	1598	830	4.25	880	5.04	965	6.66	1009	7.56	1052	8.49	1093	9.42	1131	10.38	1168	11.36	1205	12.38	1241	13.42
11000	1757	875	4.95	920	5.79	1006	7.56	1047	8.51	1087	9.48	1127	10.48	1165	11.49	1202	12.52	1237	13.57	1271	14.64
12000	1917	921	5.75	964	6.64	1006	7.56	1047	8.51	1087	9.48	1127	10.48	1165	11.49	1202	12.52	1237	13.57	1271	14.64
13000	2077	970	6.64	1010	7.60	1049	8.56	1087	9.57	1126	10.60	1163	11.64	1200	12.71	1236	13.80	1271	14.90	1304	16.01
14000	2237	1019	7.61	1058	8.67	1095	9.69	1131	10.73	1166	11.81	1202	12.91	1237	14.03	1271	15.16	1305	16.32	1338	17.50
15000	2397	1068	8.67	1107	9.84	1142	10.94	1176	12.03	1210	13.15	1243	14.30	1276	15.47	1309	16.66	1341	17.88	1373	19.10
16000	2556	1118	9.82	1156	11.09	1191	12.29	1224	13.46	1255	14.64	1287	15.83	1318	17.05	1349	18.30	1380	19.56	1410	20.82
17000	2716	1168	11.08	1205	12.43	1240	13.75	1272	15.02	1303	16.26	1333	17.51	1362	18.77	1392	20.08	1420	21.37	1449	22.69
18000	2876	1219	12.45	1255	13.88	1289	15.31	1321	16.69	1351	18.02	1380	19.33	1408	20.65	1436	21.99	1463	23.34	1491	24.71
19000	3036	1271	13.95	1306	15.47	1339	16.98	1370	18.48	1400	19.92	1428	21.31	1455	22.68	1482	24.08	1508	25.48	1534	26.89
20000	3195	1323	15.59	1356	17.16	1388	18.75	1419	20.34	1449	21.90	1477	23.42	1503	24.88	1529	26.32	1555	27.80	1579	29.25
21000	3355	1377	17.38	1408	19.12	1439	20.68	1469	22.35	1498	24.00	1526	25.62	1552	27.21	1577	28.74	1602	30.26	1626	31.81
22000	3515	1430	19.31	1460	21.01	1490	22.74	1519	24.49	1548	26.26	1575	27.97	1601	29.64	1626	31.31	1650	32.90	1674	34.50
23000	3675	1484	21.42	1513	23.19	1542	24.98	1570	26.78	1597	28.60	1624	30.44	1650	32.25	1675	33.97	1699	35.72	1722	37.38
24000	3834	1538	23.69	1566	25.51	1594	27.35	1621	29.24	1648	31.16	1674	33.04	1699	34.93	1724	36.85	1748	38.62	1771	40.44
26000	4154	1648	28.74	1674	30.70	1700	32.68	1725	34.67	1750	36.71	1775	38.75	1799	40.80	1823	42.91	1846	44.90	1869	46.98
28000	4473	1758	34.58	1783	36.63	1807	38.74	1831	40.88	1854	43.02	1878	45.23	1900	47.38	1923	49.62	1945	51.80	1967	54.06
30000	4793	1870	41.22	1893	43.41	1916	45.62	1938	47.88	1960	50.17	1982	52.45	2004	54.78	2025	57.10	2046	59.46	2067	61.82
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP			
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	1917	1305	15.75	1371	18.01																
13000	2077	1336	17.14	1399	19.47	1460	21.91														
14000	2237	1371	18.70	1431	21.10	1489	23.58	1546	26.16												
15000	2397	1405	20.33	1465	22.88	1523	25.47	1577	28.10	1683	33.63										
16000	2556	1440	22.12	1499	24.75	1556	27.45	1610	30.19	1712	35.82	1811	41.82								
17000	2716	1478	24.05	1535	26.77	1590	29.57	1644	32.42	1744	38.24	1839	44.36	1932	50.70						
18000	2876	1518	26.13	1573	28.95	1626	31.84	1678	34.79	1778	40.84	1870	47.09	1959	53.56	2046	60.30				
19000	3036	1560	28.35	1612	31.28	1663	34.27	1714	37.32	1812	43.59	1903	50.03	1989	56.66	2072	63.48	2155	70.60		
20000	3195	1604	30.74	1654	33.77	1703	36.87	1751	40.02	1846	46.49	1937	53.15	2022	59.96	2103	66.90	2181	74.11	2221	77.84
21000	3355	1650	33.32	1697	36.44	1744	39.64	1790	42.89	1882	49.55	1971	56.42	2056	63.45	2135	70.56	2211	77.89		
22000	3515	1697	36.10	1742	39.32	1787															

Wheel Diameter = 36.50 in.
 Outlet Area = 7.65 sq. ft. inside
 Maximum BHP = 12.5 x (RPM/1000)³
 Tip Speed, fpm = 9.56 x RPM

Size

3650 sisw

Design 5010 Centrifugal Airfoil Fans

Class I RPM 1307
 Class II RPM 1598
 Class III RPM 2010

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	653	288	0.29	316	0.39	343	0.49	369	0.60	392	0.71	414	0.82								
6000	784	324	0.41	349	0.52	372	0.63	395	0.75	417	0.88	438	1.01	458	1.14	495	1.41				
7000	914	361	0.54	384	0.68	405	0.81	425	0.94	445	1.08	464	1.22	483	1.37	519	1.67	552	1.98	584	2.31
8000	1045	398	0.71	421	0.87	441	1.03	459	1.18	476	1.33	494	1.48	511	1.64	545	1.97	577	2.30	607	2.65
9000	1175	437	0.92	458	1.10	477	1.28	495	1.45	511	1.62	527	1.79	542	1.96	573	2.31	603	2.67	633	3.05
10000	1306	477	1.17	496	1.37	514	1.57	531	1.77	547	1.96	562	2.15	576	2.33	604	2.71	632	3.10	659	3.50
11000	1437	517	1.48	535	1.69	551	1.90	568	2.12	583	2.34	598	2.56	612	2.76	638	3.17	663	3.58	688	4.01
12000	1567	558	1.83	574	2.06	590	2.29	605	2.53	620	2.77	634	3.01	648	3.24	673	3.69	697	4.13	720	4.58
13000	1698	599	2.24	614	2.49	629	2.74	643	2.99	657	3.25	671	3.51	684	3.77	709	4.27	732	4.75	754	5.23
14000	1828	641	2.72	655	2.98	669	3.24	682	3.52	695	3.79	708	4.07	721	4.35	746	4.91	768	5.44	789	5.96
15000	1959	683	3.27	696	3.54	709	3.82	722	4.11	734	4.40	746	4.70	758	4.99	782	5.60	804	6.18	825	6.75
16000	2090	725	3.89	737	4.17	749	4.47	762	4.77	773	5.08	785	5.39	796	5.71	819	6.34	841	6.98	861	7.61
17000	2220	767	4.59	779	4.89	790	5.20	802	5.51	813	5.84	824	6.17	835	6.50	856	7.17	877	7.85	897	8.53
18000	2351	810	5.37	821	5.69	832	6.01	842	6.34	853	6.68	864	7.02	874	7.38	895	8.08	915	8.80	934	9.52
19000	2481	853	6.24	863	6.57	873	6.91	883	7.26	893	7.61	904	7.97	913	8.33	933	9.07	952	9.82	971	10.58
20000	2612	895	7.21	905	7.55	915	7.90	925	8.26	934	8.63	944	9.01	953	9.39	972	10.16	991	10.94	1009	11.73
22000	2873	981	9.43	990	9.81	999	10.19	1008	10.58	1016	10.98	1025	11.39	1034	11.79	1051	12.63	1068	13.48	1085	14.33
24000	3134	1067	12.09	1075	12.50	1083	12.91	1092	13.33	1100	13.76	1108	14.19	1116	14.63	1132	15.52	1147	16.43	1163	17.36
26000	3395	1153	15.21	1161	15.67	1168	16.10	1176	16.55	1183	17.01	1191	17.47	1198	17.93	1213	18.89	1228	19.86	1242	20.84
28000	3657	1240	18.85	1247	19.33	1254	19.81	1261	20.28	1268	20.77	1275	21.26	1282	21.75	1295	22.76	1309	23.79	1323	24.84
30000	3918	1326	23.03	1333	23.54	1340	24.07	1346	24.57	1353	25.08	1359	25.60	1365	26.13	1378	27.19	1391	28.28	1404	29.38
32000	4179	1413	27.81	1419	28.35	1426	28.90	1432	29.45	1438	29.98	1444	30.53	1450	31.08	1462	32.21	1474	33.35	1486	34.52
34000	4440	1500	33.20	1506	33.78	1512	34.36	1518	34.95	1523	35.52	1529	36.09	1534	36.67	1546	37.86	1557	39.05	1568	40.27
36000	4701	1587	39.27	1592	39.87	1598	40.49	1603	41.11	1609	41.73	1614	42.33	1619	42.93	1630	44.17	1641	45.44	1651	46.70
38000	4963	1674	46.04	1679	46.68	1684	47.32	1689	47.97	1695	48.64	1700	49.28	1705	49.91	1715	51.19	1725	52.52	1735	53.85
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1045	636	3.01																		
9000	1175	660	3.44	712	4.23	761	5.09														
10000	1306	686	3.92	736	4.77	783	5.65	827	6.58												
11000	1437	713	4.45	762	5.35	808	6.29	850	7.26	891	8.27	931	9.32								
12000	1567	743	5.05	789	6.01	833	7.00	875	8.03	914	9.06	952	10.14	989	11.26						
13000	1698	775	5.72	818	6.73	860	7.78	900	8.85	940	9.95	977	11.09	1012	12.24	1046	13.42	1080	14.64		
14000	1828	809	6.47	849	7.53	888	8.62	927	9.76	965	10.90	1001	12.09	1036	13.29	1069	14.51	1102	15.77	1134	17.06
15000	1959	844	7.31	882	8.41	919	9.56	956	10.74	992	11.95	1027	13.18	1062	14.44	1095	15.72	1126	17.03	1157	18.34
16000	2090	880	8.21	917	9.39	951	10.58	986	11.81	1020	13.07	1054	14.36	1088	15.67	1120	17.01	1151	18.36	1181	19.72
17000	2220	916	9.19	952	10.46	985	11.70	1018	12.97	1051	14.29	1083	15.63	1115	16.99	1146	18.37	1177	19.77	1207	21.21
18000	2351	953	10.23	988	11.60	1020	12.92	1052	14.25	1082	15.61	1113	17.00	1143	18.41	1173	19.84	1203	21.30	1232	22.79
19000	2481	990	11.35	1024	12.82	1056	14.24	1086	15.64	1116	17.04	1145	18.47	1174	19.93	1202	21.42	1231	22.93	1259	24.47
20000	2612	1026	12.53	1061	14.13	1092	15.66	1122	17.13	1150	18.59	1178	20.07	1205	21.58	1233	23.11	1260	24.67	1287	26.26
22000	2873	1102	15.20	1134	16.95	1165	18.70	1194	20.38	1221	22.01	1247	23.61	1272	25.22	1298	26.87	1322	28.51	1347	30.19
24000	3134	1178	18.28	1209	20.17	1238	22.09	1266	23.99	1293	25.83	1318	27.63	1343	29.41	1366	31.13	1389	32.88	1412	34.68
26000	3395	1257	21.84	1285	23.86	1313	25.91	1339	27.98	1366	30.04	1391	32.06	1415	34.05	1437	35.92	1459	37.83	1481	39.71
28000	3657	1336	25.90	1363	28.06	1389	30.25	1414	32.44	1439	34.66	1463	36.88	1487	39.11	1509	41.19	1531	43.29	1552	45.32
30000	3918	1416	30.50	1441	32.77	1466	35.08	1490	37.44	1514	39.79	1537	42.16	1560	44.57	1582	46.89	1603	49.20	1624	51.46
32000	4179	1497	35.69	1521	38.11	1544	40.52	1567	42.98	1590	45.50	1612	47.99	1634	50.52	1655	53.09	1676	55.56	1697	58.11
34000	4440	1579	41.52	1601	44.01	1623	46.58	1645	49.19	1666	51.78	1688	54.46	1708	57.08	1729	59.79	1749	62.46	1769	65.17
36000	4701	1662	47.99	1683	50.62	1704	53.31	1724	56.00	1745	58.79	1765	61.51	1785	64.35	1804	67.11	1824	70.01	1843	72.78
38000	4963	1745	55.18	1765	57.95	1784	60.70	1804	63.59	1823	66.41	1843	69.36	1861	72.21	1880	75.21	1899	78.11	1917	81.12
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		21"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14000	1828	1165	18.39																		
15000	1959	1186	19.68	1245	22.49																
16000	2090	1211	21.12	1267	23.97	1322	26.95														
17000	2220	1236	22.67	1291	25.59	1344	28.62	1395	31.77												
18000	2351	1261	24.30	1316	27.34	1368	30.45	1417	33.65	1515	40.40										
19000	2481	1287	26.03	1341	29.19	1392	32.40	1441	35.69	1535	42.54										
20000	2612	1314	27.87	1367	31.13	1418	34.46	1466	37.85	1558	44.85	1645	52.18								
22000	2873	1372	31.91	1421	35.36	1469	38.90	1517	42.51	1607	49.91	1690	57.55	1770	65.46	1849	73.71				
24000	3134	1435	36.45	1481	40.13	1526	43.88	1570	47.69	1657	55.48	1740	63.55	1816	71.72	1890	80.19	1963	88.99	1999	93.54
26000	3395	1502	41.60	1544	45.44	1586	49.38	1628	53.40	1710	61.64	1790	70.04	1866	78.76	1938	87.57	2007	96.57		
28000	3657	1572	47.36	1612	51.41	1651	55.53	1690	59.76	1767	68.33	1843	77.19	1916							

Wheel Diameter = 44.50 in.
 Outlet Area = 11.37 sq. ft. inside
 Maximum BHP = 33.1 x (RPM/1000)³
 Tip Speed, fpm = 11.7 x RPM

Size

4450 sisw

Class I RPM 1019
 Class II RPM 1305
 Class III RPM 1641

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	704	246	0.5	268	0.6	290	0.8	310	1.0	329	1.1	347	1.3	364	1.5	397	1.8				
9000	792	265	0.6	286	0.8	306	0.9	325	1.1	343	1.3	361	1.5	377	1.7	407	2.1	437	2.5		
10000	879	286	0.7	305	0.9	323	1.1	341	1.3	358	1.5	375	1.7	391	1.9	420	2.3	448	2.7	474	3.2
11000	967	306	0.9	324	1.1	342	1.3	358	1.5	374	1.7	390	1.9	405	2.1	434	2.6	461	3.1	486	3.5
12000	1055	328	1.1	345	1.3	361	1.5	376	1.7	391	2.0	406	2.2	420	2.4	448	2.9	475	3.4	500	3.9
13000	1143	350	1.3	365	1.5	381	1.7	395	2.0	409	2.2	423	2.5	437	2.7	463	3.2	489	3.8	513	4.3
14000	1231	372	1.5	387	1.8	401	2.0	415	2.3	428	2.5	441	2.8	454	3.1	480	3.6	504	4.2	528	4.7
15000	1319	394	1.8	408	2.0	422	2.3	435	2.6	448	2.9	460	3.1	473	3.4	496	4.0	520	4.6	542	5.2
16000	1407	416	2.1	430	2.4	443	2.6	455	2.9	468	3.2	480	3.5	491	3.8	514	4.4	536	5.0	558	5.7
18000	1583	462	2.8	474	3.1	486	3.4	497	3.7	509	4.1	520	4.4	530	4.7	551	5.4	572	6.1	592	6.8
20000	1759	508	3.7	519	4.0	530	4.4	540	4.7	551	5.1	561	5.4	571	5.8	590	6.5	609	7.3	628	8.0
22000	1935	554	4.7	564	5.1	574	5.5	584	5.9	594	6.2	603	6.6	613	7.0	631	7.8	648	8.6	666	9.4
24000	2111	600	6.0	610	6.4	620	6.8	629	7.2	638	7.6	647	8.0	655	8.5	672	9.3	689	10.2	705	11.1
26000	2287	647	7.4	656	7.9	665	8.3	674	8.8	682	9.2	690	9.7	699	10.1	715	11.1	730	12.0	745	12.9
28000	2463	694	9.1	703	9.6	711	10.1	719	10.6	727	11.0	735	11.5	743	12.0	758	13.0	772	14.0	787	15.0
30000	2638	742	11.1	750	11.6	757	12.1	765	12.6	773	13.1	780	13.6	787	14.2	801	15.2	815	16.3	829	17.3
32000	2814	789	13.3	796	13.8	804	14.4	811	14.9	818	15.5	825	16.0	832	16.6	846	17.7	859	18.8	872	19.9
34000	2990	837	15.8	844	16.3	850	16.9	857	17.5	864	18.1	871	18.7	877	19.3	890	20.4	903	21.6	915	22.8
36000	3166	884	18.6	891	19.2	897	19.8	904	20.4	910	21.0	917	21.6	923	22.3	935	23.5	947	24.8	959	26.0
38000	3342	932	21.7	938	22.3	944	23.0	950	23.6	957	24.3	963	24.9	969	25.6	980	26.9	992	28.2	1003	29.5
40000	3518	979	25.1	986	25.8	991	26.5	997	27.2	1003	27.9	1009	28.6	1015	29.2	1026	30.6	1037	32.0	1048	33.4
44000	3870	1075	33.1	1081	33.9	1086	34.7	1091	35.4	1097	36.1	1102	36.9	1107	37.7	1118	39.1	1128	40.7	1138	42.2
48000	4222	1171	42.7	1176	43.5	1181	44.4	1186	45.2	1191	46.0	1196	46.8	1201	47.6	1210	49.3	1219	50.9	1229	52.5
52000	4573	1267	54.0	1271	54.9	1276	55.8	1281	56.7	1286	57.6	1290	58.4	1294	59.3	1303	61.1	1312	62.8	1321	64.6
56000	4925	1363	67.1	1367	68.1	1371	69.0	1376	70.0	1380	71.0	1385	71.9	1389	72.8	1397	74.7	1405	76.6	1413	78.5
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	879	501	3.7																		
11000	967	510	4.0	559	5.1																
12000	1055	523	4.4	567	5.5																
13000	1143	536	4.9	579	5.9	620	7.1														
14000	1231	550	5.3	592	6.5	631	7.7	669	8.9	707	10.3										
15000	1319	564	5.8	606	7.0	644	8.3	680	9.6	715	10.9	751	12.4								
16000	1407	579	6.3	620	7.6	658	9.0	693	10.3	726	11.7	759	13.1	792	14.6						
18000	1583	611	7.5	649	8.9	685	10.4	720	11.9	752	13.4	783	14.9	812	16.4	842	18.0	872	19.7	901	21.4
20000	1759	646	8.8	681	10.3	715	11.9	748	13.5	780	15.2	810	16.8	839	18.5	866	20.2	893	21.9	920	23.6
22000	1935	683	10.3	715	11.9	747	13.7	778	15.4	809	17.1	838	18.9	867	20.8	894	22.6	920	24.4	945	26.3
24000	2111	721	12.0	752	13.8	782	15.6	811	17.5	839	19.3	867	21.2	895	23.2	921	25.1	947	27.1	972	29.1
26000	2287	760	13.9	789	15.8	818	17.7	845	19.7	872	21.8	899	23.8	925	25.8	950	27.9	976	30.0	1000	32.1
28000	2463	801	16.0	828	18.1	855	20.1	881	22.2	907	24.4	932	26.5	957	28.7	981	30.9	1005	33.1	1028	35.3
30000	2638	842	18.4	868	20.6	894	22.8	919	25.0	943	27.2	967	29.5	990	31.8	1014	34.2	1036	36.5	1059	38.9
32000	2814	884	21.1	909	23.4	934	25.7	957	28.0	981	30.4	1003	32.8	1026	35.2	1048	37.7	1070	40.2	1091	42.6
34000	2990	927	24.0	951	26.4	974	28.9	997	31.4	1019	33.9	1041	36.4	1062	38.9	1083	41.5	1104	44.1	1125	46.7
36000	3166	971	27.3	993	29.8	1015	32.4	1037	35.0	1058	37.6	1079	40.3	1100	42.9	1120	45.6	1140	48.3	1160	51.0
38000	3342	1014	30.9	1036	33.5	1057	36.2	1078	38.9	1098	41.7	1119	44.5	1138	47.2	1158	50.0	1177	52.9	1196	55.7
40000	3518	1058	34.8	1079	37.6	1100	40.4	1120	43.2	1139	46.1	1158	49.0	1178	51.9	1196	54.8	1215	57.7	1233	60.7
44000	3870	1148	43.7	1167	46.7	1186	49.8	1205	52.9	1223	56.0	1240	59.1	1258	62.3	1275	65.4	1293	68.7	1309	71.8
48000	4222	1238	54.2	1256	57.5	1273	60.8	1291	64.2	1308	67.5	1324	70.9	1341	74.3	1357	77.7	1373	81.2	1389	84.5
52000	4573	1329	66.4	1346	69.9	1363	73.6	1378	77.1	1395	80.7	1410	84.3	1426	88.0	1441	91.6	1456	95.3	1470	98.9
56000	4925	1421	80.4	1437	84.3	1452	88.1	1468	92.0	1482	95.8	1497	99.7	1511	103.5	1526	107.4	1540	111.3	1554	115.2
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		21"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	1759	946	25.4	999	29.2																
22000	1935	969	28.1	1017	31.9	1065	35.9														
24000	2111	997	31.1	1042	35.1	1086	39.2	1130	43.4												
26000	2287	1024	34.3	1069	38.6	1112	42.9	1153	47.3	1234	56.4										
28000	2463	1052	37.6	1097	42.2	1139	46.8	1179	51.4	1255	60.8	1331	70.8	1406	81.4						
30000	2638	1081	41.2	1125	46.1	1167	51.0	1207	55.9	1281	65.8	1351	75.8	1422	86.5	1492	97.8				
32000	2814	1112	45.1	1154	50.1	1195	55.3	1235	60.6	1309	71.0	1377	81.5	1442	92.3	1508	103.6	1574	115.5		
34000	2990	1145	49.3	1185	54.6	1224	59.9	1262	65.3	1336	76.5	1404	87.7	1467	98.7	1529	110.1	1590	122.0	1621	128.3
36000	3166	1179	53.8	1217	59.3	1255	64.9	1292	70.5	1363	82.1	1432	94.0	1494	105.6	1554	117.3	1612	129.4		
38000	3342	1214	58.5	1251	64.3	1287	70.2	1323	76.1	1392	88.0	1459	100.4	1522	112.7	1581	125.0	1637	137.4		
40000	3518	1251	63.7	1286	69.7	1321	75.8	1355	81.9	1422	94.3	1487	107.1	1549	120.0	1608	133.0				
44000	3870	1326	75.1	1359	81.6	1392	88.1	1424	94.8	1486	108.1	1547	121.8	1605	135.4						
48000	4222	1405	88.1	1435	95.0	1466	102.0	1495	109.1												

Wheel Diameter = 49.00 in.
 Outlet Area = 13.78 sq. ft. inside
 Maximum BHP = 53.6 x (RPM/1000)³
 Tip Speed, fpm = 12.8 x RPM

Size

4900 SISW

Design 5010 Centrifugal Airfoil Fans

Class I RPM 925
 Class II RPM 1184
 Class III RPM 1490

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	725	228	0.6	248	0.8	267	1.0	285	1.2	302	1.4	318	1.6	333	1.8	362	2.3				
11000	798	242	0.7	261	0.9	279	1.1	296	1.4	313	1.6	328	1.8	343	2.1	371	2.5	397	3.0		
12000	870	257	0.9	275	1.1	292	1.3	308	1.5	324	1.8	339	2.0	354	2.3	380	2.8	405	3.3	430	3.8
13000	943	273	1.0	290	1.2	305	1.5	321	1.7	336	2.0	350	2.3	364	2.5	391	3.1	415	3.6	438	4.2
14000	1016	289	1.2	305	1.4	320	1.7	334	2.0	348	2.2	362	2.5	375	2.8	401	3.4	426	3.9	448	4.5
15000	1088	305	1.4	320	1.6	334	1.9	348	2.2	361	2.5	375	2.8	387	3.1	412	3.7	436	4.3	458	4.9
16000	1161	321	1.6	336	1.9	349	2.2	362	2.5	375	2.8	388	3.1	400	3.4	424	4.0	447	4.7	469	5.3
18000	1306	355	2.1	367	2.4	380	2.7	392	3.1	404	3.4	415	3.7	427	4.1	448	4.8	470	5.5	490	6.2
20000	1451	388	2.7	400	3.1	412	3.4	423	3.8	434	4.1	444	4.5	455	4.9	475	5.6	495	6.4	514	7.2
22000	1596	422	3.4	433	3.8	444	4.2	454	4.6	465	5.0	475	5.4	484	5.8	503	6.6	522	7.5	540	8.3
24000	1741	457	4.3	467	4.7	477	5.2	487	5.6	496	6.0	506	6.4	515	6.9	532	7.8	550	8.6	567	9.5
26000	1886	491	5.3	501	5.8	510	6.2	519	6.7	528	7.1	537	7.6	546	8.1	562	9.0	579	10.0	595	10.9
28000	2031	526	6.5	535	7.0	544	7.5	553	8.0	561	8.5	569	8.9	577	9.4	593	10.5	609	11.5	624	12.5
30000	2176	561	7.8	570	8.4	578	8.9	586	9.4	594	9.9	602	10.5	610	11.0	625	12.1	639	13.1	654	14.2
32000	2321	596	9.4	604	9.9	612	10.5	620	11.0	628	11.6	635	12.1	642	12.7	657	13.8	671	15.0	684	16.1
34000	2466	632	11.1	639	11.7	647	12.3	654	12.9	661	13.4	668	14.0	675	14.6	689	15.8	702	17.0	715	18.3
36000	2611	667	13.0	674	13.6	681	14.2	688	14.9	695	15.5	702	16.1	709	16.8	722	18.0	734	19.3	747	20.6
38000	2756	702	15.2	709	15.8	716	16.5	723	17.1	729	17.8	736	18.4	742	19.1	755	20.4	767	21.8	779	23.1
40000	2901	738	17.5	744	18.2	751	18.9	757	19.6	764	20.3	770	21.0	776	21.7	788	23.1	800	24.5	811	25.9
44000	3192	809	23.0	815	23.8	821	24.5	827	25.3	833	26.0	838	26.8	844	27.5	855	29.1	866	30.6	877	32.1
48000	3482	880	29.6	886	30.4	892	31.2	897	32.0	902	32.9	908	33.7	913	34.5	923	36.2	933	37.8	943	39.5
52000	3772	952	37.3	957	38.2	962	39.1	967	39.9	972	40.8	977	41.7	982	42.6	992	44.4	1001	46.2	1010	48.0
56000	4062	1024	46.3	1029	47.2	1034	48.2	1038	49.1	1043	50.1	1047	51.0	1052	52.0	1061	53.9	1070	55.8	1079	57.8
60000	4352	1095	56.6	1100	57.6	1105	58.7	1109	59.7	1113	60.7	1118	61.7	1122	62.7	1130	64.8	1139	66.8	1147	68.9
65000	4715	1185	71.6	1189	72.7	1194	73.8	1198	74.9	1202	76.1	1206	77.1	1210	78.2	1218	80.4	1226	82.7	1233	84.8
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13000	943	461	4.7																		
14000	1016	469	5.1	511	6.4																
15000	1088	479	5.5	519	6.8	558	8.2														
16000	1161	490	6.0	528	7.3	565	8.7	601	10.3												
18000	1306	511	6.9	548	8.4	583	9.9	616	11.5	648	13.1	681	14.9								
20000	1451	533	8.0	569	9.6	604	11.3	635	12.9	665	14.6	694	16.4	724	18.2	753	20.1				
22000	1596	557	9.2	591	10.9	624	12.7	656	14.5	685	16.4	713	18.2	740	20.1	766	22.0	793	24.0	819	26.1
24000	1741	583	10.5	615	12.3	646	14.2	677	16.2	706	18.2	733	20.2	759	22.1	784	24.2	809	26.2	833	28.3
26000	1886	610	11.9	641	13.9	670	16.0	699	18.0	727	20.1	754	22.3	780	24.4	805	26.6	828	28.7	851	30.9
28000	2031	639	13.5	668	15.7	695	17.8	723	20.0	749	22.2	775	24.4	801	26.7	825	29.1	849	31.4	872	33.7
30000	2176	668	15.3	695	17.6	722	19.8	748	22.2	773	24.5	798	26.9	822	29.3	846	31.7	870	34.2	892	36.7
32000	2321	698	17.3	724	19.7	749	22.0	774	24.5	798	27.0	822	29.5	845	32.0	868	34.5	891	37.1	913	39.7
34000	2466	728	19.5	753	22.0	777	24.5	801	27.0	824	29.6	847	32.2	870	34.9	891	37.5	913	40.2	935	42.9
36000	2611	759	21.9	783	24.5	806	27.1	829	29.8	851	32.5	873	35.2	895	38.0	916	40.8	937	43.6	957	46.4
38000	2756	791	24.4	814	27.2	836	30.0	858	32.8	879	35.6	900	38.4	921	41.3	941	44.2	961	47.2	981	50.2
40000	2901	823	27.3	845	30.1	866	33.0	887	35.9	908	38.9	928	41.9	948	44.9	967	47.9	987	51.0	1006	54.1
44000	3192	887	33.7	908	36.8	928	39.9	947	43.1	966	46.3	985	49.5	1004	52.7	1022	56.0	1040	59.3	1058	62.6
48000	3482	953	41.1	972	44.5	991	47.9	1009	51.3	1027	54.8	1045	58.2	1062	61.7	1079	65.3	1096	68.7	1113	72.3
52000	3772	1020	49.8	1038	53.4	1055	57.0	1072	60.7	1089	64.4	1106	68.1	1122	71.8	1138	75.6	1154	79.4	1170	83.2
56000	4062	1087	59.7	1104	63.6	1120	67.4	1136	71.3	1152	75.3	1168	79.2	1183	83.2	1199	87.2	1213	91.2	1229	95.3
60000	4352	1155	71.0	1171	75.0	1186	79.2	1202	83.4	1217	87.5	1232	91.8	1246	95.9	1261	100.2	1275	104.5	1289	108.8
65000	4715	1241	87.0	1255	91.5	1270	96.0	1284	100.4	1298	104.9	1312	109.4	1326	114.0	1339	118.5	1353	123.1	1366	127.7
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		21"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24000	1741	857	30.5	906	35.1																
26000	1886	874	33.1	918	37.7	964	42.6														
28000	2031	893	36.0	936	40.8	977	45.6	1019	50.8												
30000	2176	914	39.1	955	44.1	995	49.1	1033	54.3	1111	65.4										
32000	2321	935	42.4	976	47.6	1014	52.9	1051	58.2	1124	69.4	1197	81.5								
34000	2466	956	45.7	997	51.3	1035	56.9	1071	62.5	1140	73.9	1209	85.9	1277	98.8						
36000	2611	978	49.3	1017	55.1	1056	61.0	1092	66.9	1160	78.8	1224	91.0	1289	103.9	1353	117.5				
38000	2756	1001	53.1	1039	59.1	1076	65.3	1113	71.5	1180	84.0	1242	96.5	1304	109.6	1364	123.2	1425	137.6		
40000	2901	1025	57.2	1062	63.4	1098	69.8	1133	76.2	1201	89.4	1262	102.4	1321	115.8	1379	129.5	1436	143.9	1465	151.3
44000	3192	1076	66.0	1110	72.8	1144	79.6	1177	86.4	1242	100.5	1304	115.0	1361	129.3	1415	143.6	1467	158.2		
48000	3482	1129	75.9	1162	83.2	1194	90.5	1225	97.9	1286	112.8	1345	128.1	1402	143.6	1455	159.2				
52000	3772	1185	87.0	1216	94.7	1246	102.5	1275	110.4	1333	126.4	1389	142.4	1443	158.8						
56000	4062	1243	99.3	1272	107.5	1300	115.8	1328	124.1	1383	141.0	1436	158.2	1487	175.4						
60000	4352	1302	113.0	1330	121.7	1357	130.5	1383	139.3												

Wheel Diameter = 54.25 in.
 Outlet Area = 16.91 sq. ft. inside
 Maximum BHP = 89.1 x (RPM/1000)³
 Tip Speed, fpm = 14.2 x RPM

Size

5425 sisw

Design 5010 Centrifugal Airfoil Fans

Class I RPM 836
 Class II RPM 1071
 Class III RPM 1347

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	710	203	0.7	221	1.0	239	1.2	255	1.4	271	1.7	285	1.9	299	2.2	326	2.7				
14000	828	225	1.0	241	1.2	257	1.5	272	1.8	286	2.0	301	2.3	314	2.6	338	3.2	362	3.8	385	4.5
16000	947	247	1.2	262	1.5	277	1.8	290	2.2	304	2.5	317	2.8	329	3.1	354	3.8	376	4.4	396	5.1
18000	1065	271	1.6	285	1.9	298	2.3	310	2.6	323	2.9	335	3.3	346	3.7	369	4.4	391	5.1	411	5.9
20000	1184	295	2.0	308	2.4	320	2.8	331	3.1	343	3.5	354	3.9	365	4.3	386	5.1	407	5.9	426	6.7
22000	1302	319	2.6	331	2.9	342	3.3	353	3.7	364	4.1	374	4.6	385	5.0	404	5.8	424	6.7	442	7.6
24000	1420	344	3.2	355	3.6	366	4.0	376	4.4	386	4.9	396	5.3	405	5.8	424	6.7	442	7.6	460	8.5
26000	1539	369	3.9	380	4.3	389	4.8	399	5.2	409	5.7	418	6.2	427	6.6	444	7.6	461	8.6	478	9.6
28000	1657	394	4.7	404	5.1	414	5.6	423	6.1	432	6.6	440	7.1	449	7.6	466	8.7	482	9.7	498	10.8
30000	1775	420	5.6	429	6.1	438	6.6	447	7.1	455	7.7	463	8.2	471	8.8	487	9.9	503	11.0	518	12.1
32000	1894	445	6.6	454	7.2	463	7.7	471	8.3	479	8.8	487	9.4	494	10.0	510	11.1	524	12.3	539	13.5
34000	2012	471	7.8	479	8.4	487	8.9	495	9.5	503	10.1	510	10.7	518	11.3	532	12.6	546	13.8	560	15.1
36000	2130	497	9.1	505	9.7	512	10.3	520	10.9	527	11.6	534	12.2	541	12.8	555	14.1	569	15.4	582	16.8
38000	2249	523	10.5	530	11.2	538	11.8	545	12.5	552	13.2	559	13.8	565	14.5	579	15.8	592	17.2	604	18.6
40000	2367	549	12.1	556	12.8	563	13.5	570	14.2	576	14.9	583	15.6	590	16.3	602	17.7	615	19.1	627	20.6
44000	2604	601	15.8	607	16.6	614	17.3	620	18.1	626	18.9	632	19.6	639	20.4	650	21.9	662	23.5	673	25.0
48000	2840	653	20.2	659	21.0	665	21.9	671	22.7	677	23.5	682	24.4	688	25.2	699	26.9	710	28.6	720	30.2
52000	3077	705	25.4	711	26.3	717	27.2	722	28.1	727	29.0	733	29.9	738	30.8	748	32.6	758	34.4	768	36.2
56000	3314	758	31.4	763	32.4	768	33.3	774	34.3	779	35.3	784	36.2	788	37.2	798	39.1	808	41.1	817	43.0
60000	3551	811	38.4	816	39.4	820	40.4	825	41.4	830	42.5	835	43.5	839	44.5	849	46.6	857	48.6	866	50.7
65000	3847	876	48.4	881	49.5	886	50.6	890	51.7	895	52.8	899	53.9	903	55.1	912	57.2	920	59.5	928	61.7
70000	4142	943	60.1	947	61.2	951	62.5	955	63.7	959	64.8	963	66.0	968	67.2	976	69.6	983	72.0	991	74.4
75000	4438	1009	73.5	1013	74.8	1017	76.1	1021	77.4	1025	78.6	1028	79.9	1032	81.1	1040	83.7	1047	86.2	1054	88.8
80000	4734	1075	88.8	1079	90.2	1082	91.5	1086	92.9	1090	94.3	1094	95.6	1097	97.0	1104	99.7	1111	102.5	1118	105.1
85000	5030	1141	106.2	1145	107.6	1148	109.0	1152	110.5	1155	112.0	1159	113.4	1162	114.8	1169	117.7	1175	120.6	1182	123.5
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16000	947	416	5.8																		
18000	1065	430	6.6	466	8.2	502	9.9														
20000	1184	445	7.5	480	9.2	512	10.9	545	12.8												
22000	1302	461	8.5	495	10.3	526	12.1	556	14.0	585	16.0	615	18.2								
24000	1420	477	9.5	510	11.5	541	13.5	570	15.5	597	17.5	624	19.6	651	21.9						
26000	1539	495	10.6	526	12.7	557	14.9	585	17.0	611	19.2	637	21.4	662	23.6	687	26.0	712	28.5		
28000	1657	513	11.9	543	14.1	572	16.3	600	18.6	627	21.0	651	23.3	675	25.6	698	28.0	722	30.5	745	33.1
30000	1775	532	13.2	561	15.6	589	17.9	616	20.3	642	22.8	667	25.3	690	27.8	713	30.3	735	32.8	756	35.4
32000	1894	553	14.7	580	17.2	607	19.7	632	22.2	658	24.8	682	27.4	706	30.1	728	32.7	749	35.4	770	38.0
34000	2012	573	16.3	600	18.9	625	21.5	650	24.2	674	26.9	698	29.6	721	32.4	743	35.2	764	38.0	785	40.9
36000	2130	595	18.1	620	20.8	644	23.5	668	26.3	691	29.1	714	32.0	736	34.8	758	37.8	780	40.8	800	43.8
38000	2249	617	20.0	641	22.8	664	25.7	687	28.6	710	31.5	731	34.5	753	37.5	774	40.5	795	43.6	816	46.8
40000	2367	639	22.0	662	25.0	685	28.0	707	31.0	728	34.0	750	37.1	770	40.3	791	43.4	811	46.6	831	49.9
44000	2604	684	26.6	706	29.8	727	33.0	748	36.3	768	39.6	788	43.0	807	46.4	826	49.8	845	53.2	864	56.7
48000	2840	731	31.9	751	35.4	771	38.8	790	42.4	809	45.9	827	49.5	846	53.1	864	56.8	882	60.5	899	64.2
52000	3077	778	38.0	797	41.7	816	45.4	834	49.2	852	53.0	869	56.8	887	60.7	903	64.6	920	68.5	937	72.5
56000	3314	826	45.0	844	48.9	862	52.9	879	56.9	896	60.9	912	65.0	929	69.2	945	73.2	960	77.4	976	81.7
60000	3551	875	52.8	892	57.0	909	61.3	925	65.5	941	69.8	956	74.1	972	78.5	987	82.8	1002	87.2	1017	91.7
65000	3847	937	64.0	952	68.5	968	73.0	983	77.6	998	82.2	1013	86.8	1028	91.5	1042	96.1	1056	100.9	1070	105.6
70000	4142	999	76.8	1014	81.7	1028	86.5	1043	91.3	1057	96.3	1071	101.2	1085	106.2	1098	111.1	1111	116.2	1124	121.2
75000	4438	1062	91.4	1076	96.5	1089	101.7	1103	106.9	1116	112.1	1130	117.4	1142	122.6	1155	127.9	1168	133.2	1180	138.6
80000	4734	1125	107.8	1138	113.3	1151	118.8	1164	124.3	1177	129.8	1189	135.4	1201	140.9	1213	146.6	1225	152.1	1237	157.9
85000	5030	1188	126.3	1201	132.1	1213	137.9	1226	143.8	1237	149.6	1249	155.4	1261	161.3	1272	167.2	1284	173.2	1295	179.1
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		21"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
28000	1657	768	35.8																		
30000	1775	777	38.1	821	43.7																
32000	1894	790	40.8	830	46.4	871	52.4														
34000	2012	805	43.7	843	49.4	881	55.4	919	61.7												
36000	2130	820	46.8	857	52.7	893	58.8	929	65.1	1000	78.7										
38000	2249	835	50.0	872	56.2	907	62.5	941	68.9	1009	82.6										
40000	2367	850	53.2	888	59.8	922	66.4	955	73.0	1020	86.8	1084	101.4								
44000	2604	882	60.2	918	67.3	953	74.5	985	81.8	1047	96.2	1105	111.2	1163	127.0						
48000	2840	916	67.9	950	75.5	983	83.1	1016	91.0	1077	106.7	1133	122.6	1186	138.5	1239	155.3	1292	173.0	1319	182.3
52000	3077	953	76.5	985	84.6	1017	92.7	1047	100.9	1107	117.8	1163	134.7	1215	151.7	1264	169.0	1313	186.8	1337	195.8
56000	3314	992	85.8	1022	94.4	1052	103.0	1081	111.7	1138	129.3	1193	147.6	1245	165.8	1293	183.9	1339	202.2		
60000	3551	1032	96.1	1061	105.1	1089	114.3	1117	123.5	1171	142.1	1224	160.9	1275	180.5	1324	200.0				
65000	3847	1084	110.4	1111	120.																

Performance Data

Wheel Diameter = 60.00 in.
 Outlet Area = 20.66 sq. ft. inside
 Maximum BHP = 148. X (RPM/1000)³
 Tip Speed, fpm = 15.7 x RPM

Size

6000 SISW

Class I RPM 755
 Class II RPM 967
 Class III RPM 1216

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP		
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
16000	774	194	1.0	210	1.3	224	1.6	239	2.0	252	2.3	265	2.6	277	3.0	300	3.6	323	4.4			
18000	871	210	1.3	225	1.6	238	2.0	252	2.3	264	2.7	277	3.0	289	3.4	311	4.2	331	4.9	351	5.7	
20000	968	227	1.6	241	2.0	253	2.3	266	2.7	278	3.1	289	3.5	300	3.9	322	4.7	342	5.6	360	6.4	
22000	1064	245	2.0	257	2.4	269	2.8	280	3.2	292	3.6	302	4.0	313	4.5	334	5.3	353	6.3	372	7.2	
24000	1161	263	2.4	274	2.8	285	3.3	296	3.7	306	4.1	317	4.6	327	5.1	346	6.0	365	7.0	383	8.0	
26000	1258	281	2.9	291	3.3	302	3.8	312	4.3	322	4.8	332	5.3	341	5.7	359	6.8	377	7.8	394	8.8	
28000	1355	299	3.4	309	3.9	319	4.4	329	4.9	338	5.5	347	6.0	356	6.5	374	7.6	390	8.7	407	9.8	
30000	1451	317	4.1	327	4.6	336	5.1	345	5.7	354	6.2	363	6.8	372	7.3	388	8.5	404	9.6	420	10.8	
32000	1548	336	4.8	345	5.3	354	5.9	363	6.5	371	7.1	379	7.6	387	8.2	403	9.4	419	10.6	434	11.9	
34000	1645	354	5.6	363	6.2	372	6.8	380	7.4	388	8.0	396	8.6	404	9.2	419	10.5	434	11.8	448	13.1	
36000	1742	373	6.5	381	7.1	390	7.7	398	8.4	405	9.0	413	9.7	420	10.3	435	11.6	449	13.0	463	14.3	
38000	1838	392	7.5	400	8.1	408	8.8	415	9.5	423	10.1	430	10.8	437	11.5	451	12.9	465	14.3	478	15.7	
40000	1935	411	8.6	419	9.3	426	9.9	433	10.6	441	11.4	448	12.1	454	12.8	468	14.2	481	15.7	494	17.2	
45000	2177	458	11.8	465	12.5	472	13.3	479	14.1	485	14.9	492	15.7	498	16.5	510	18.1	522	19.7	534	21.3	
50000	2419	506	15.8	513	16.6	519	17.5	525	18.3	531	19.2	537	20.1	543	21.0	554	22.7	565	24.5	576	26.3	
55000	2661	555	20.6	560	21.5	566	22.5	572	23.4	577	24.4	583	25.3	588	26.3	599	28.2	609	30.1	619	32.1	
60000	2903	603	26.3	608	27.3	614	28.4	619	29.4	624	30.4	629	31.5	634	32.5	644	34.6	653	36.7	663	38.8	
65000	3145	651	33.1	656	34.2	661	35.3	666	36.4	671	37.5	676	38.6	680	39.8	689	42.0	698	44.3	707	46.5	
70000	3386	700	40.9	705	42.2	709	43.3	714	44.5	718	45.7	723	46.9	727	48.1	736	50.5	744	52.9	752	55.4	
75000	3628	749	50.0	753	51.3	757	52.5	762	53.8	766	55.1	770	56.4	774	57.6	782	60.2	790	62.8	798	65.4	
80000	3870	797	60.3	801	61.6	806	63.0	810	64.3	814	65.7	817	67.1	821	68.5	829	71.2	837	73.9	844	76.7	
85000	4112	846	71.9	850	73.4	854	74.8	858	76.3	861	77.7	865	79.1	869	80.6	876	83.5	883	86.4	890	89.4	
90000	4354	895	85.0	899	86.5	902	88.1	906	89.6	910	91.1	913	92.6	917	94.1	924	97.3	930	100.3	937	103.4	
95000	4596	944	99.6	947	101.2	951	102.8	955	104.5	958	106.1	961	107.7	964	109.2	971	112.5	978	115.7	984	118.9	
100000	4838	993	115.8	996	117.5	1000	119.2	1003	120.9	1006	122.7	1009	124.3	1012	126.0	1019	129.3	1025	132.8	1031	136.1	
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP		
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
22000	1064	389	8.1	421	10.0	454	12.1															
24000	1161	400	9.0	431	11.0	461	13.1	491	15.4													
26000	1258	411	9.9	442	12.1	471	14.3	498	16.6	526	19.0											
28000	1355	423	10.9	454	13.2	482	15.5	508	17.9	533	20.4	559	23.0									
30000	1451	435	12.0	465	14.4	493	16.9	519	19.4	543	21.9	567	24.6	591	27.3	615	30.2					
32000	1548	448	13.1	477	15.7	504	18.3	530	21.0	554	23.6	577	26.3	599	29.1	622	32.0	644	35.0			
34000	1645	462	14.4	489	17.0	516	19.8	541	22.6	565	25.4	588	28.2	609	31.1	630	34.0	651	37.0	672	40.2	
36000	1742	476	15.7	503	18.5	528	21.3	553	24.3	577	27.3	599	30.2	620	33.2	640	36.2	661	39.3	681	42.5	
38000	1838	491	17.1	516	20.1	541	23.0	565	26.1	588	29.2	610	32.3	632	35.5	652	38.6	671	41.8	690	45.0	
40000	1935	506	18.7	531	21.7	554	24.8	577	28.0	600	31.2	622	34.4	643	37.8	663	41.1	682	44.4	701	47.8	
45000	2177	545	23.0	568	26.4	590	29.8	611	33.2	632	36.8	652	40.3	672	43.9	691	47.6	711	51.3	729	55.0	
50000	2419	587	28.1	607	31.8	627	35.5	647	39.3	666	43.1	685	47.0	704	50.9	722	54.8	740	58.7	757	62.7	
55000	2661	629	34.1	648	38.0	667	42.0	685	46.1	703	50.2	721	54.4	738	58.6	755	62.9	772	67.2	788	71.5	
60000	2903	672	41.0	690	45.2	707	49.5	725	53.9	741	58.4	758	62.8	774	67.4	790	71.9	806	76.5	822	81.1	
65000	3145	716	48.8	733	53.4	749	58.1	765	62.8	781	67.5	797	72.3	812	77.1	827	81.9	842	86.8	857	91.8	
70000	3386	761	57.8	776	62.7	792	67.7	807	72.7	822	77.7	837	82.8	851	87.9	866	93.1	880	98.3	894	103.5	
75000	3628	806	68.0	821	73.3	836	78.5	850	83.8	864	89.1	878	94.6	892	100.0	905	105.4	919	111.0	932	116.4	
80000	3870	851	79.4	866	85.0	880	90.6	893	96.2	907	101.8	920	107.5	933	113.3	946	119.0	959	124.9	971	130.6	
85000	4112	897	92.2	911	98.1	924	104.0	937	109.9	950	116.0	963	121.9	975	127.9	987	134.0	1000	140.1	1012	146.2	
90000	4354	944	106.5	957	112.6	969	118.8	982	125.2	994	131.3	1006	137.8	1018	144.0	1030	150.4	1041	156.7	1053	163.3	
95000	4596	990	122.2	1003	128.7	1015	135.3	1027	141.8	1038	148.5	1050	155.0	1061	161.7	1072	168.3	1084	175.1	1094	181.7	
100000	4838	1037	139.5	1049	146.4	1060	153.2	1072	160.1	1083	167.0	1094	174.0	1105	180.8	1116	188.0	1126	194.8	1137	201.9	
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		21"SP		
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
34000	1645	694	43.5																			
36000	1742	700	45.8																			
38000	1838	709	48.3	740	52.7																	
40000	1935	719	51.1	747	55.2																	
45000	2177	747	58.7	755	58.1	790	65.4															
				780	66.1	812	73.7	844	81.5	907	98.1											
50000	2419	775	66.8	808	75.1	840	83.4	870	91.6	927	108.5	983	126.5									
55000	2661	805	75.8	837	84.6	868	93.7	898	102.8	953	120.8	1005	139.1	1056	158.5	1108	179.1					
60000	2903	837	85.8	867	95.2	897	104.6	926	114.3	981	134.1	1031	153.6	1079	173.6	1126	194.2	1173	215.8	1196	227.0	
65000	3145	871	96.7	900	106.7	928	116.8	955	127.0	1009	147.9	1060	169.4	1106	190.3	1150	211.6	1193	233.5			
70000	3386	908	108.8	935	119.4	961	130.1	987	140.9	1038	162.9	1087	185.3	1134	208.5	1178	231.0					
75000	3628	945	122.0	971	133.2	996	144.6	1021	156.1	1069	179.1	1116	202.6	1162	226.6	1206	251.1					
80000	3870	984	136.5	1008	148.3</																	

Wheel Diameter = 66.00 in.
 Outlet Area = 25.01 sq. ft. inside
 Maximum BHP = 238. x (RPM/1000)³
 Tip Speed, fpm = 17.3 x RPM

Size

6600 sisw

Design 5010 Centrifugal Airfoil Fans

Class I RPM 687
 Class II RPM 879
 Class III RPM 1106

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	800	180	1.3	194	1.7	207	2.1	220	2.5	232	2.9	244	3.3	255	3.7	275	4.6	295	5.5		
22000	880	193	1.6	206	2.0	218	2.4	230	2.8	241	3.3	253	3.7	264	4.2	283	5.1	302	6.0	320	7.0
24000	960	205	1.9	218	2.3	229	2.8	240	3.3	251	3.7	262	4.2	272	4.7	292	5.7	310	6.7	327	7.7
26000	1040	218	2.3	230	2.7	241	3.2	251	3.7	262	4.2	272	4.7	282	5.2	301	6.3	319	7.4	335	8.4
28000	1119	232	2.7	243	3.2	253	3.7	263	4.2	273	4.7	282	5.3	292	5.8	310	6.9	327	8.1	344	9.2
30000	1199	245	3.1	255	3.6	265	4.2	275	4.7	284	5.3	293	5.9	302	6.5	319	7.6	336	8.8	352	10.1
32000	1279	259	3.6	269	4.2	278	4.8	287	5.3	296	5.9	305	6.5	313	7.2	330	8.4	346	9.7	361	10.9
36000	1439	286	4.8	295	5.5	304	6.1	312	6.7	320	7.4	328	8.1	336	8.7	351	10.1	366	11.5	380	12.9
40000	1599	314	6.3	322	7.0	330	7.7	338	8.4	345	9.1	353	9.9	360	10.6	374	12.1	388	13.6	401	15.1
45000	1799	349	8.5	357	9.3	364	10.1	371	10.9	378	11.7	385	12.5	391	13.3	404	15.0	417	16.6	429	18.3
50000	1999	385	11.3	392	12.2	398	13.0	405	13.9	411	14.8	417	15.7	423	16.6	435	18.4	447	20.2	458	22.0
55000	2199	421	14.6	427	15.6	433	16.6	439	17.5	445	18.5	451	19.4	456	20.4	467	22.4	478	24.3	489	26.3
60000	2399	457	18.6	463	19.7	468	20.7	474	21.7	479	22.8	485	23.8	490	24.9	500	27.0	510	29.1	520	31.3
65000	2599	493	23.3	498	24.4	504	25.5	509	26.6	514	27.8	519	28.9	524	30.0	534	32.3	543	34.6	552	36.9
70000	2799	529	28.7	534	29.9	539	31.1	544	32.3	549	33.5	554	34.7	558	35.9	567	38.4	576	40.9	585	43.3
75000	2999	566	34.9	570	36.2	575	37.5	580	38.8	584	40.1	589	41.4	593	42.7	602	45.3	610	47.9	618	50.5
80000	3199	602	42.0	606	43.4	611	44.7	615	46.1	619	47.5	624	48.9	628	50.3	636	53.0	644	55.8	652	58.6
85000	3398	638	50.0	643	51.5	647	52.9	651	54.4	655	55.9	659	57.3	663	58.7	671	61.7	678	64.6	686	67.6
90000	3598	675	59.0	679	60.6	683	62.1	687	63.6	691	65.2	695	66.7	698	68.2	706	71.3	713	74.4	720	77.5
95000	3798	712	69.0	716	70.7	719	72.3	723	73.9	727	75.5	730	77.1	734	78.8	741	82.0	748	85.3	755	88.5
100000	3998	748	80.1	752	81.9	756	83.6	759	85.3	763	86.9	766	88.7	770	90.4	776	93.8	783	97.2	790	100.7
105000	4198	785	92.4	788	94.2	792	96.0	795	97.8	799	99.6	802	101.3	805	103.1	812	106.7	818	110.3	824	113.9
110000	4398	822	105.9	825	107.8	828	109.7	832	111.6	835	113.4	838	115.2	841	117.1	847	120.9	853	124.6	859	128.3
115000	4598	858	120.6	862	122.6	865	124.6	868	126.6	871	128.5	874	130.4	877	132.3	883	136.3	889	140.2	895	144.1
120000	4798	895	136.7	898	138.7	901	140.8	904	142.9	908	145.0	910	147.0	913	148.9	919	153.0	925	157.2	930	161.1
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24000	960	343	8.8																		
26000	1040	351	9.5	381	11.8																
28000	1119	359	10.4	388	12.8	416	15.3														
30000	1199	368	11.3	396	13.8	422	16.4	449	19.2												
32000	1279	376	12.2	404	14.9	430	17.6	455	20.4	479	23.3										
36000	1439	394	14.3	421	17.2	447	20.3	470	23.2	493	26.3	514	29.5	536	32.8	558	36.3				
40000	1599	414	16.7	439	19.8	464	23.1	487	26.4	509	29.8	530	33.1	549	36.5	569	40.0	589	43.7	608	47.4
45000	1799	441	20.0	464	23.5	487	27.0	509	30.6	530	34.3	551	38.1	570	41.8	588	45.6	606	49.3	624	53.2
50000	1999	469	23.9	491	27.7	512	31.6	533	35.4	553	39.4	572	43.4	591	47.6	610	51.7	627	55.9	644	60.0
55000	2199	499	28.4	519	32.4	539	36.6	558	40.8	577	45.1	595	49.5	613	53.8	631	58.3	648	62.8	665	67.3
60000	2399	530	33.5	549	37.8	567	42.3	585	46.9	603	51.4	620	56.1	637	60.8	654	65.5	670	70.3	686	75.1
65000	2599	562	39.3	579	44.0	597	48.7	614	53.6	630	58.5	647	63.4	663	68.4	678	73.5	694	78.5	709	83.7
70000	2799	594	45.8	611	50.8	627	55.9	643	61.1	659	66.2	674	71.5	689	76.8	704	82.2	719	87.6	734	93.0
75000	2999	627	53.2	643	58.5	658	63.9	673	69.4	688	74.8	703	80.4	717	86.0	732	91.7	746	97.4	759	103.1
80000	3199	660	61.4	675	67.0	690	72.8	704	78.5	719	84.3	732	90.2	746	96.0	760	102.0	773	108.0	786	114.0
85000	3398	693	70.5	708	76.5	722	82.5	736	88.6	749	94.7	763	100.9	776	107.1	789	113.3	802	119.7	814	125.9
90000	3598	727	80.7	741	87.0	755	93.3	768	99.6	781	106.1	794	112.6	806	119.1	818	125.6	831	132.3	843	138.8
95000	3798	762	91.9	775	98.4	788	105.1	800	111.8	813	118.5	825	125.2	837	132.1	849	139.0	861	145.8	872	152.8
100000	3998	796	104.1	809	111.0	821	118.1	833	125.0	845	132.0	857	139.2	868	146.2	880	153.5	891	160.6	902	167.9
105000	4198	831	117.5	843	124.8	855	132.0	866	139.3	878	146.7	889	154.0	900	161.6	911	168.9	922	176.6	933	184.0
110000	4398	866	132.2	877	139.7	889	147.3	900	154.9	911	162.5	922	170.4	932	177.9	943	185.9	953	193.5	964	201.5
115000	4598	900	148.0	912	155.9	923	163.9	934	171.7	944	179.8	955	187.7	965	195.9	975	203.8	985	212.1	995	220.0
120000	4798	936	165.2	947	173.5	957	181.6	968	189.9	978	198.2	988	206.5	998	214.8	1008	223.3	1018	231.6	1027	240.2
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		21"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
45000	1799	641	57.2	676	65.5																
50000	1999	660	64.2	691	72.6	723	81.5	754	90.9												
55000	2199	681	71.9	711	81.0	741	90.1	769	99.6	826	119.7										
60000	2399	702	80.0	733	90.0	762	100.0	789	109.8	841	130.2	893	151.9								
65000	2599	724	88.9	754	99.3	782	110.0	809	120.7	860	142.1	908	164.2	956	187.7						
70000	2799	748	98.4	776	109.5	804	120.8	831	132.3	881	155.3	927	178.1	971	201.8	1016	226.7	1060	253.0		
75000	2999	773	108.9	800	120.5	826	132.3	852	144.2	902	168.8	948	193.5	990	217.8	1032	242.9	1073	269.1	1094	283.0
80000	3199	799	120.2	825	132.5	850	144.8	875	157.3	923	182.9	969	209.1	1011	235.3	1051	261.2	1090	287.8		
85000	3398	827	132.4	851	145.3	875	158.3	899	171.4	945	198.1	990	225.2	1032	253.3	1072	280.8				
90000	3598	855	145.5	878	159.0	901	172.7	924	186.5	968	214.3	1011	242.4	1053	271.5	1093	301.1				
95000	3798	884	159.7	906	173.8	928	188.0	950	202.4	993	231.6	1034	260.8	1074	290.7						
100000	3998	913	175.1	935	189.7	956	204.5	977	219.4	1018	250.0	1058	280.4								

Wheel Diameter = 80.75 in.
 Outlet Area = 37.46 sq. ft. inside
 Maximum BHP = 648. x (RPM/1000)³
 Tip Speed, fpm = 21.1 x RPM

Size

8075 sisw

Class I RPM 562
 Class II RPM 719

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		1/2"SP		3/4"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP		2"SP		2-1/4"SP		2-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24000	641	128	1.3	154	2.3	176	3.3	196	4.4												
26000	694	134	1.5	159	2.6	181	3.6	200	4.7	218	6.0										
28000	748	141	1.8	164	2.8	185	4.0	204	5.2	221	6.4										
30000	801	147	2.0	170	3.1	190	4.3	209	5.6	225	6.9	241	8.2								
32000	855	154	2.3	175	3.5	195	4.7	213	6.0	230	7.4	245	8.8	260	10.2						
34000	908	161	2.5	181	3.8	200	5.1	218	6.5	234	7.9	249	9.4	263	10.9	278	12.4				
36000	962	168	2.9	188	4.2	206	5.6	223	7.0	239	8.5	254	10.0	267	11.5	281	13.1	294	14.8		
38000	1015	175	3.2	194	4.6	211	6.1	228	7.6	243	9.1	258	10.7	272	12.3	285	13.9	297	15.6	310	17.3
40000	1068	182	3.6	200	5.0	217	6.6	233	8.1	248	9.7	263	11.4	276	13.1	289	14.7	301	16.4	313	18.2
45000	1202	201	4.7	217	6.3	233	8.0	247	9.7	261	11.5	275	13.3	288	15.1	301	17.0	313	18.9	324	20.7
50000	1335	219	6.0	235	7.8	249	9.6	262	11.5	275	13.4	288	15.4	300	17.3	312	19.4	324	21.5	336	23.6
55000	1469	238	7.6	252	9.5	266	11.5	278	13.6	290	15.6	302	17.7	314	19.9	325	22.1	336	24.3	347	26.5
60000	1603	257	9.5	270	11.6	283	13.7	295	15.9	306	18.1	317	20.4	328	22.7	339	25.0	349	27.4	359	29.8
65000	1736	276	11.6	289	13.9	300	16.2	312	18.6	322	20.9	333	23.4	343	25.8	353	28.3	363	30.8	373	33.4
70000	1870	296	14.1	307	16.6	318	19.0	329	21.6	339	24.1	349	26.7	359	29.3	368	31.9	378	34.6	387	37.3
75000	2003	315	17.0	326	19.6	337	22.3	347	24.9	356	27.6	366	30.3	375	33.1	384	35.9	393	38.7	402	41.6
80000	2137	335	20.3	345	23.0	355	25.8	365	28.6	374	31.5	383	34.4	392	37.3	400	40.3	409	43.2	417	46.2
85000	2270	354	23.9	364	26.9	374	29.8	383	32.8	392	35.8	400	38.9	409	42.0	417	45.1	425	48.2	433	51.3
90000	2404	374	28.0	383	31.1	392	34.3	401	37.4	410	40.6	418	43.8	426	47.0	434	50.3	442	53.6	449	56.9
95000	2537	394	32.6	403	35.9	411	39.2	420	42.5	428	45.8	436	49.2	443	52.6	451	56.0	459	59.4	466	62.9
100000	2671	414	37.7	422	41.1	430	44.6	438	48.0	446	51.5	454	55.0	461	58.6	469	62.2	476	65.7	483	69.4
105000	2805	433	43.3	442	46.8	449	50.4	457	54.1	465	57.7	472	61.5	479	65.1	486	68.8	493	72.7	500	76.4
110000	2938	453	49.4	461	53.1	469	56.9	476	60.7	483	64.6	490	68.3	497	72.2	504	76.1	511	80.0	517	84.0
115000	3072	473	56.0	481	59.9	488	63.9	495	67.9	502	71.8	509	75.8	516	79.9	522	83.9	529	88.0	535	92.1
120000	3205	493	63.3	500	67.4	507	71.5	514	75.6	521	79.7	527	84.0	534	88.1	540	92.3	546	96.5	553	100.8
130000	3472	533	79.7	540	84.1	546	88.6	553	93.0	559	97.5	565	101.9	571	106.6	577	111.0	583	115.6	589	120.1
140000	3739	573	98.7	579	103.6	585	108.3	591	113.1	597	117.8	603	122.7	609	127.5	614	132.4	620	137.2	625	142.1
150000	4006	613	120.7	619	125.9	625	130.9	630	136.1	636	141.1	641	146.3	647	151.5	652	156.6	657	161.9	662	167.0
160000	4274	653	145.7	659	151.2	664	156.6	669	162.0	675	167.6	680	172.9	685	178.5	690	184.0	695	189.4	699	195.0
Volume O.Vel		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP		7"SP		7-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
40000	1068	338	22.0																		
45000	1202	345	24.6	367	28.7																
50000	1335	356	27.7	376	31.9	395	36.4	414	41.1												
55000	1469	368	31.1	387	35.6	405	40.3	422	45.0	440	50.0	458	55.3								
60000	1603	380	34.6	399	39.6	416	44.7	433	49.6	449	54.7	465	60.0	481	65.5	497	71.1				
65000	1736	392	38.5	410	43.8	428	49.2	445	54.6	460	60.0	475	65.4	490	71.0	505	76.7	520	82.7	535	88.7
70000	1870	405	42.8	423	48.3	440	54.0	456	59.8	472	65.6	487	71.5	501	77.2	515	83.0	529	89.0	543	95.3
75000	2003	419	47.4	436	53.2	452	59.1	468	65.2	484	71.4	499	77.6	513	83.8	526	90.0	540	96.3	553	102.6
80000	2137	434	52.3	450	58.6	465	64.8	480	71.1	495	77.5	510	84.1	524	90.7	538	97.4	551	104.0	564	110.5
85000	2270	449	57.7	464	64.3	479	70.8	494	77.4	508	84.1	522	90.9	536	97.9	550	104.9	563	111.9	576	118.9
90000	2404	464	63.6	479	70.4	493	77.3	507	84.2	521	91.3	535	98.4	548	105.5	561	112.7	574	120.1	587	127.6
95000	2537	480	69.9	494	77.0	508	84.2	522	91.4	535	98.8	548	106.3	561	113.7	574	121.1	586	128.7	599	136.5
100000	2671	497	76.7	510	84.1	523	91.5	537	99.1	549	106.8	562	114.6	575	122.4	587	130.1	599	138.0	611	146.0
105000	2805	513	84.0	526	91.7	539	99.5	552	107.4	564	115.3	576	123.4	588	131.6	600	139.7	612	147.8	624	156.1
110000	2938	530	91.9	543	99.9	555	108.1	567	116.2	579	124.4	591	132.7	603	141.2	614	149.8	626	158.1	637	166.7
115000	3072	547	100.3	560	108.6	571	117.0	583	125.5	595	134.1	606	142.7	618	151.4	629	160.2	640	169.1	650	177.9
120000	3205	565	109.4	577	118.1	588	126.7	599	135.5	611	144.3	622	153.3	633	162.3	643	171.3	654	180.5	665	189.7
130000	3472	600	129.3	611	138.6	622	147.9	633	157.2	643	166.7	654	176.4	664	185.8	674	195.5	684	205.2	694	215.0
140000	3739	636	151.9	646	161.8	657	171.8	667	181.7	677	191.8	687	202.1	696	212.1	706	222.5	715	232.6		
150000	4006	672	177.5	682	187.9	692	198.5	701	209.2	711	219.7										
160000	4274	709	206.0	719	217.3																
Volume O.Vel		8"SP		8-1/2"SP		9"SP		9-1/2"SP		10"SP		10-1/2"SP		11"SP		11-1/2"SP		12"SP		13"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
65000	1736	550	95.1																		
70000	1870	556	101.6	570	108.1	584	114.9														
75000	2003	565	109.0	578	115.6	591	122.3	604	129.3	617	136.3	630	143.6								
80000	2137	576	117.3	588	123.9	600	130.7	612	137.7	624	144.8	636	152.1	648	159.5	660	167.1	672	174.9		
85000	2270	588	126.1	600	132.9	611	140.1	623	147.1	634	154.4	645	161.6	657	169.2	668	176.7	679	184.6	701	200.5
90000	2404	599	135.1	611	142.4	623	150.0	634	157.2	645	164.8	655	172.1	666	179.8	677	187.4	688	195.3	709	211.2
95000	2537	611	144.3	623	152.1	634	160.2	645	167.8	657	175.8	667	183.4	677	191.3	687	199.1	698	207.0	718	223.2
100000	2671	623	154.0	634	162.1	646	170.5	657	178.6	668	187.1	678	195.1	689	203.5	699	211.5	709	219.7		
105000	2805	635	164.3	646	172.7	658	181.3	668	189.7	680	198.6	690	207.0	701	216.0	710	224.3				
110000	2938	648	175.4	659	183.9	670	192.8	680	201.4	691	210.4	701	219.3	712	228.5						
115000	3072	661	186.9	672	195.7	682	204.8	693	213.8	703	222.9	7									

Wheel Diameter = 18.25 in.
 Outlet Area = 3.44 sq. ft. inside
 Maximum BHP = .761 x (RPM/1000)³
 Tip Speed, fpm = 4.78 x RPM

Class I RPM 2518
 Class II RPM 3279

Size

1825 DIDW

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		1/2"SP		3/4"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP		2"SP		2-1/4"SP		2-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1400	406	476	0.08																		
1600	464	499	0.09	637	0.18																
1800	522	524	0.11	654	0.20																
2000	580	549	0.12	675	0.22	783	0.33														
2400	696	602	0.16	722	0.28	822	0.40	912	0.53	997	0.67										
2800	812	658	0.21	773	0.35	868	0.48	952	0.62	1030	0.77	1105	0.93	1177	1.10						
3200	928	722	0.28	825	0.42	917	0.57	998	0.72	1071	0.88	1141	1.05	1208	1.23	1273	1.42	1336	1.61		
3600	1044	788	0.36	879	0.51	968	0.68	1047	0.85	1118	1.02	1184	1.20	1247	1.39	1308	1.58	1367	1.78	1424	1.99
4000	1160	857	0.45	937	0.62	1021	0.80	1098	0.99	1167	1.18	1231	1.37	1292	1.56	1349	1.76	1405	1.98	1459	2.19
4400	1276	926	0.56	1000	0.74	1075	0.94	1150	1.15	1218	1.35	1281	1.56	1339	1.76	1395	1.98	1449	2.20	1501	2.42
4800	1392	997	0.70	1066	0.89	1132	1.09	1203	1.32	1269	1.54	1331	1.76	1389	1.99	1444	2.21	1496	2.44	1546	2.68
5200	1508	1069	0.85	1133	1.06	1194	1.27	1258	1.50	1322	1.75	1383	1.99	1439	2.23	1493	2.47	1544	2.72	1593	2.96
5600	1625	1141	1.03	1201	1.25	1259	1.48	1316	1.71	1376	1.97	1435	2.23	1492	2.50	1544	2.76	1594	3.01	1642	3.28
6000	1741	1214	1.23	1271	1.46	1325	1.70	1378	1.95	1432	2.22	1489	2.50	1544	2.78	1596	3.06	1646	3.34	1693	3.62
6500	1886	1306	1.52	1359	1.77	1410	2.03	1459	2.30	1508	2.57	1558	2.86	1610	3.16	1661	3.47	1710	3.77	1756	4.07
7000	2031	1399	1.85	1448	2.12	1496	2.40	1542	2.68	1587	2.97	1633	3.27	1680	3.58	1728	3.91	1776	4.24	1822	4.57
7500	2176	1492	2.23	1538	2.53	1583	2.82	1626	3.12	1669	3.42	1712	3.73	1754	4.05	1798	4.39	1843	4.74	1888	5.09
8000	2321	1585	2.66	1629	2.98	1671	3.29	1712	3.61	1753	3.93	1793	4.26	1832	4.59	1872	4.93	1913	5.29	1956	5.66
8500	2466	1679	3.15	1720	3.48	1760	3.82	1799	4.15	1838	4.49	1876	4.84	1913	5.18	1950	5.54	1988	5.90	2026	6.28
9000	2611	1773	3.70	1812	4.05	1850	4.40	1887	4.76	1924	5.12	1960	5.48	1995	5.84	2031	6.21	2066	6.58	2101	6.97
9500	2756	1867	4.31	1904	4.68	1941	5.05	1976	5.42	2011	5.80	2045	6.18	2079	6.56	2113	6.95	2146	7.33	2179	7.73
10000	2901	1961	4.99	1997	5.38	2031	5.76	2065	6.15	2099	6.55	2132	6.95	2164	7.34	2196	7.75	2228	8.16	2259	8.56
10500	3046	2056	5.73	2090	6.14	2123	6.55	2155	6.96	2187	7.37	2219	7.78	2250	8.20	2281	8.62	2311	9.04	2342	9.47
11000	3191	2150	6.55	2183	6.97	2215	7.40	2246	7.83	2276	8.26	2307	8.69	2337	9.13	2366	9.56	2396	10.01	2424	10.45
11500	3336	2245	7.44	2276	7.88	2307	8.34	2337	8.78	2366	9.23	2395	9.68	2424	10.13	2453	10.59	2480	11.04	2509	11.51
12000	3481	2340	8.41	2370	8.88	2400	9.35	2428	9.81	2457	10.28	2484	10.74	2512	11.22	2539	11.68	2567	12.17	2593	12.64
13000	3771	2530	10.60	2558	11.11	2585	11.62	2612	12.12	2638	12.62	2665	13.13	2690	13.63	2716	14.15	2741	14.65	2766	15.17
14000	4061	2720	13.15	2747	13.71	2772	14.24	2798	14.80	2822	15.33	2846	15.87	2870	16.42	2894	16.96	2918	17.51	2941	18.05
15000	4351	2911	16.09	2935	16.68	2960	17.26	2983	17.85	3007	18.44	3029	19.00	3052	19.59	3074	20.17	3096	20.74	3118	21.33
Volume O.Vel		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP		7"SP		7-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4000	1160	1564	2.65	1666	3.13																
4400	1276	1600	2.90	1696	3.40	1789	3.91														
4800	1392	1642	3.17	1732	3.68	1821	4.22	1907	4.78	1991	5.36										
5200	1509	1686	3.47	1774	4.00	1859	4.56	1941	5.14	2021	5.73	2099	6.34	2177	6.97						
5600	1625	1734	3.81	1819	4.36	1900	4.93	1980	5.52	2057	6.14	2132	6.77	2205	7.41	2277	8.07	2349	8.76		
6000	1741	1781	4.17	1866	4.75	1945	5.34	2021	5.94	2096	6.57	2168	7.22	2239	7.89	2309	8.58	2377	9.28	2444	9.98
6500	1886	1844	4.67	1926	5.28	2004	5.90	2079	6.54	2151	7.19	2220	7.85	2287	8.54	2353	9.24	2419	9.96	2484	10.71
7000	2031	1908	5.22	1989	5.86	2065	6.51	2137	7.17	2207	7.85	2275	8.54	2340	9.25	2405	9.97	2467	10.72	2528	11.47
7500	2176	1973	5.80	2053	6.50	2127	7.18	2199	7.87	2267	8.58	2334	9.30	2398	10.04	2460	10.78	2520	11.53	2579	12.32
8000	2321	2039	6.41	2117	7.16	2192	7.91	2262	8.64	2329	9.38	2394	10.13	2457	10.89	2517	11.65	2576	12.44	2635	13.25
8500	2466	2105	7.07	2183	7.87	2256	8.67	2326	9.45	2392	10.23	2455	11.01	2517	11.80	2577	12.60	2635	13.42	2692	14.24
9000	2611	2174	7.78	2249	8.62	2322	9.47	2391	10.31	2456	11.14	2519	11.96	2579	12.78	2638	13.61	2696	14.47	2751	15.31
9500	2756	2247	8.55	2317	9.42	2388	10.32	2456	11.21	2521	12.09	2583	12.96	2642	13.83	2700	14.70	2757	15.59	2811	16.46
10000	2901	2322	9.40	2388	10.29	2455	11.22	2522	12.16	2586	13.10	2648	14.02	2707	14.94	2764	15.85	2820	16.77	2873	17.68
10500	3046	2401	10.34	2462	11.23	2525	12.17	2589	13.15	2652	14.15	2713	15.13	2771	16.09	2828	17.06	2883	18.03	2936	18.98
11000	3191	2482	11.34	2539	12.26	2597	13.21	2657	14.21	2718	15.24	2779	16.28	2837	17.31	2893	18.32	2947	19.33	3001	20.35
11500	3336	2564	12.44	2618	13.38	2673	14.34	2729	15.35	2787	16.40	2845	17.48	2903	18.57	2959	19.64	3012	20.70	3065	21.77
12000	3481	2647	13.60	2699	14.58	2751	15.57	2804	16.60	2858	17.65	2914	18.75	2969	19.87	3025	21.02	3078	22.12	3130	23.23
13000	3771	2815	16.20	2864	17.24	2913	18.30	2960	19.37	3008	20.45	3058	21.57	3108	22.74	3159	23.93	3211	25.14	3262	26.37
14000	4061	2988	19.17	3033	20.27	3078	21.39	3123	22.53	3167	23.65	3212	24.81	3256	26.00						
15000	4351	3161	22.50	3205	23.69	3247	24.87														
Volume O.Vel		8"SP		8-1/2"SP		9"SP		9-1/2"SP		10"SP		10-1/2"SP		11"SP		11-1/2"SP		12"SP		13"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6000	1741	2511	10.72																		
6500	1886	2546	11.45	2609	12.22	2670	12.99	2731	13.78												
7000	2031	2590	12.26	2649	13.04	2708	13.84	2767	14.66	2824	15.47	2881	16.32	2938	17.16						
7500	2176	2638	13.11	2695	13.92	2753	14.76	2808	15.58	2864	16.46	2918	17.29	2973	18.18	3026	19.05	3079	19.95		
8000	2321	2690	14.04	2746	14.88	2801	15.72	2855	16.58	2908	17.46	2961	18.35	3013	19.24	3065	20.16	3116	21.06	3217	22.93
8500	2466	2747	15.07	2802	15.94	2854	16.78	2907	17.67	2957	18.55	3010	19.47	3059	20.37	3110	21.33	3158	22.25	3256	24.19
9000	2611	2805	16.17	2859	17.06	2910	17.93	2962	18.85	3011	19.73	3061	20.68	3109	21.59	3158	22.56	3206	23.52		
9500	2756	2865	17.35	2917	18.26	2968	19.16	3019	20.10	3067	21.01	3116	21.97	3163	22.91	3210	23.89	3257	24.87		
10000	2901																				

Wheel Diameter = 20.00 in.
 Outlet Area = 4.14 sq. ft. inside
 Maximum BHP = 1.20 x (RPM/1000)³
 Tip Speed, fpm = 5.24 x RPM

Size

2000 DIDW

Class I RPM 2301
 Class II RPM 2997

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		1/2"SP		3/4"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP		2"SP		2-1/4"SP		2-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2400	580	501	0.15	616	0.27	714	0.40														
2800	676	541	0.19	651	0.32	743	0.46	827	0.62	906	0.79										
3200	773	582	0.24	689	0.39	777	0.54	855	0.70	929	0.88	999	1.07								
3600	870	629	0.29	729	0.46	814	0.63	889	0.80	958	0.99	1023	1.19	1087	1.40	1148	1.61				
4000	966	678	0.36	769	0.54	852	0.73	925	0.92	991	1.11	1054	1.32	1113	1.54	1171	1.77	1227	2.00	1282	2.24
4400	1063	729	0.45	810	0.63	891	0.84	962	1.05	1027	1.25	1087	1.47	1145	1.70	1199	1.93	1252	2.18	1304	2.43
4800	1159	781	0.54	855	0.74	931	0.96	1001	1.19	1065	1.41	1123	1.64	1178	1.87	1231	2.12	1282	2.37	1331	2.63
5200	1256	834	0.65	902	0.86	972	1.10	1041	1.34	1103	1.58	1160	1.83	1214	2.07	1266	2.33	1315	2.59	1362	2.86
5600	1353	888	0.78	952	1.01	1015	1.24	1081	1.51	1142	1.77	1199	2.03	1251	2.29	1302	2.56	1350	2.83	1396	3.11
6000	1449	942	0.92	1002	1.16	1061	1.41	1122	1.69	1182	1.97	1238	2.25	1290	2.53	1339	2.81	1386	3.09	1431	3.38
6500	1570	1011	1.13	1067	1.39	1121	1.65	1175	1.93	1232	2.24	1287	2.55	1338	2.85	1387	3.15	1433	3.45	1477	3.76
7000	1691	1080	1.37	1132	1.64	1183	1.93	1233	2.22	1285	2.53	1338	2.86	1388	3.19	1436	3.52	1481	3.84	1524	4.16
7500	1812	1149	1.64	1199	1.93	1247	2.23	1293	2.54	1340	2.86	1389	3.20	1438	3.56	1485	3.91	1530	4.26	1573	4.61
8000	1932	1219	1.94	1266	2.26	1311	2.58	1356	2.90	1399	3.23	1443	3.58	1490	3.95	1536	4.33	1580	4.71	1622	5.08
8500	2053	1290	2.29	1334	2.62	1377	2.96	1419	3.30	1460	3.65	1501	4.00	1543	4.38	1587	4.78	1630	5.18	1672	5.58
9000	2174	1360	2.67	1403	3.03	1443	3.38	1483	3.74	1522	4.11	1561	4.48	1600	4.86	1640	5.27	1681	5.69	1722	6.11
9500	2295	1431	3.10	1471	3.47	1510	3.85	1548	4.22	1586	4.61	1623	4.99	1659	5.39	1696	5.80	1734	6.23	1773	6.67
10000	2415	1502	3.58	1541	3.97	1578	4.36	1614	4.75	1650	5.15	1685	5.56	1720	5.97	1754	6.39	1790	6.82	1826	7.28
10500	2536	1573	4.10	1610	4.51	1646	4.92	1681	5.33	1715	5.75	1749	6.17	1782	6.60	1815	7.03	1848	7.47	1882	7.93
11000	2657	1645	4.67	1680	5.10	1714	5.53	1748	5.96	1781	6.40	1813	6.84	1845	7.28	1877	7.73	1908	8.19	1940	8.65
11500	2778	1717	5.30	1751	5.75	1783	6.19	1815	6.64	1847	7.09	1878	7.55	1909	8.02	1939	8.48	1969	8.95	1999	9.43
12000	2899	1788	5.98	1821	6.44	1852	6.91	1883	7.38	1914	7.85	1944	8.33	1973	8.80	2003	9.29	2032	9.78	2060	10.26
13000	3140	1932	7.51	1962	8.01	1992	8.52	2021	9.03	2049	9.53	2077	10.04	2104	10.56	2132	11.07	2159	11.61	2186	12.12
14000	3382	2076	9.29	2104	9.83	2132	10.39	2159	10.92	2185	11.47	2211	12.01	2237	12.56	2263	13.12	2288	13.67	2313	14.24
15000	3623	2220	11.34	2247	11.92	2273	12.51	2298	13.09	2323	13.67	2347	14.25	2372	14.84	2396	15.43	2420	16.02	2443	16.62
16000	3865	2364	13.67	2390	14.30	2414	14.92	2438	15.55	2461	16.16	2485	16.79	2507	17.40	2530	18.03	2553	18.66	2575	19.28
17000	4106	2509	16.31	2533	16.99	2556	17.64	2579	18.31	2601	18.96	2623	19.61	2645	20.29	2666	20.93	2687	21.60	2709	22.27
18000	4348	2654	19.28	2676	19.99	2699	20.69	2720	21.39	2742	22.10	2762	22.77	2783	23.47	2803	24.18	2823	24.86	2843	25.57
Volume O.Vel		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP		7"SP		7-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4400	1063	1405	2.96																		
4800	1159	1427	3.18	1520	3.76																
5200	1256	1454	3.43	1542	4.02	1628	4.64														
5600	1353	1484	3.69	1570	4.31	1651	4.94	1730	5.60	1809	6.28										
6000	1449	1517	3.98	1599	4.61	1678	5.27	1755	5.95	1830	6.65	1903	7.38								
6500	1570	1561	4.38	1640	5.03	1716	5.70	1789	6.41	1860	7.13	1930	7.88	1999	8.65	2067	9.44				
7000	1691	1606	4.82	1684	5.50	1758	6.20	1828	6.92	1897	7.67	1964	8.44	2030	9.24	2093	10.04	2157	10.86	2220	11.72
7500	1812	1654	5.30	1729	6.00	1801	6.73	1870	7.48	1936	8.24	2001	9.03	2064	9.85	2126	10.68	2187	11.55	2247	12.40
8000	1932	1701	5.82	1776	6.56	1846	7.31	1914	8.08	1978	8.87	2041	9.68	2102	10.51	2162	11.38	2221	12.25	2278	13.14
8500	2053	1750	6.37	1824	7.16	1893	7.94	1959	8.74	2023	9.56	2084	10.39	2144	11.25	2202	12.13	2258	13.01	2314	13.93
9000	2174	1800	6.95	1873	7.79	1941	8.61	2006	9.45	2068	10.29	2129	11.16	2188	12.04	2244	12.93	2299	13.84	2353	14.78
9500	2295	1849	7.56	1922	8.46	1989	9.33	2053	10.20	2115	11.08	2174	11.97	2232	12.89	2288	13.81	2341	14.73	2395	15.69
10000	2415	1900	8.21	1971	9.16	2038	10.08	2102	11.00	2162	11.92	2221	12.84	2278	13.79	2332	14.73	2385	15.69	2438	16.68
10500	2536	1952	8.89	2021	9.89	2087	10.87	2150	11.84	2211	12.80	2268	13.76	2324	14.74	2379	15.72	2431	16.70	2482	17.71
11000	2657	2005	9.63	2072	10.65	2137	11.69	2200	12.71	2259	13.73	2317	14.73	2372	15.75	2426	16.77	2477	17.78	2527	18.81
11500	2778	2060	10.41	2124	11.46	2188	12.55	2250	13.63	2309	14.70	2365	15.75	2420	16.80	2473	17.86	2524	18.92	2573	19.98
12000	2899	2118	11.27	2178	12.34	2239	13.45	2300	14.59	2359	15.71	2415	16.82	2469	17.92	2521	19.01	2572	20.12	2621	21.21
13000	3140	2239	13.18	2292	14.27	2346	15.42	2403	16.61	2459	17.82	2514	19.05	2568	20.27	2620	21.48	2669	22.65	2717	23.85
14000	3382	2363	15.37	2412	16.51	2461	17.68	2512	18.89	2563	20.16	2616	21.47	2668	22.78	2718	24.08	2768	25.39	2816	26.69
15000	3623	2490	17.82	2537	19.03	2582	20.25	2628	21.49	2674	22.79	2722	24.13	2771	25.50	2819	26.90	2868	28.33	2914	29.70
16000	3865	2619	20.55	2663	21.84	2706	23.13	2749	24.42	2791	25.75	2835	27.11	2879	28.51	2924	29.96	2970	31.44		
17000	4106	2751	23.61	2792	24.94	2833	26.31	2873	27.69	2913	29.05	2953	30.46	2993	31.87						
18000	4348	2883	26.97	2922	28.40	2961	29.82														
Volume O.Vel		8"SP		8-1/2"SP		9"SP		9-1/2"SP		10"SP		10-1/2"SP		11"SP		11-1/2"SP		12"SP		13"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7500	1812	2306	13.29	2365	14.21																
8000	1932	2336	14.06	2392	14.98	2447	15.92	2502	16.88	2556	17.85										
8500	2053	2370	14.88	2423	15.81	2478	16.80	2530	17.76	2582	18.77	2633	19.76	2686	20.82						
9000	2174	2407	15.74	2459	16.70	2512	17.72	2562	18.70	2613	19.75	2663	20.75	2713	21.83	2760	22.86	2809	23.94		
9500	2295	2446	16.66	2497	17.65	2548	18.68	2597	19.69	2647	20.76	2694	21.79	2743	22.89	2790	23.95	2837	25.05	2929	27.28
10000	2416	2489	17.67	2538	18.67	2588	19.71	2635	20.74	2684	21.83	2730	22.89	2777	24.01	2822	25.10	2868	26.23	2958	28.50
10500	2536	2533	18.74	2581	19.76	26															

Wheel Diameter = 22.25 in.
 Outlet Area = 5.12 sq. ft. inside
 Maximum BHP = 2.06 x (RPM/1000)³
 Tip Speed, fpm = 5.83 x RPM

Size

2225 DIDW

Design 5010 Centrifugal Airfoil Fans

Class I RPM 2068
 Class II RPM 2692
 Class III RPM 3388

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	586	452	0.19	507	0.26	556	0.33	601	0.41	644	0.50	685	0.59								
3500	683	489	0.24	541	0.32	588	0.40	630	0.49	670	0.58	708	0.67	745	0.77	815	0.98				
4000	781	527	0.30	577	0.39	622	0.48	663	0.58	701	0.67	737	0.77	771	0.88	837	1.10	899	1.34		
4500	878	569	0.37	614	0.47	658	0.58	698	0.68	734	0.79	769	0.90	802	1.01	863	1.24	922	1.48	979	1.74
5000	976	614	0.46	653	0.56	694	0.68	733	0.80	769	0.92	803	1.03	835	1.15	894	1.39	950	1.65	1003	1.92
5500	1073	660	0.56	696	0.68	732	0.80	770	0.93	805	1.06	838	1.19	869	1.31	927	1.57	981	1.84	1032	2.12
6000	1171	708	0.69	741	0.81	773	0.93	807	1.07	841	1.21	874	1.35	904	1.49	961	1.77	1013	2.05	1063	2.35
6500	1269	756	0.83	787	0.96	817	1.09	847	1.23	878	1.38	910	1.53	940	1.69	996	1.99	1048	2.29	1096	2.60
7000	1366	805	0.99	834	1.13	862	1.27	889	1.41	918	1.57	947	1.73	977	1.90	1032	2.23	1082	2.55	1130	2.87
7500	1464	854	1.17	881	1.32	908	1.47	934	1.62	960	1.78	986	1.95	1014	2.12	1068	2.48	1118	2.83	1165	3.17
8000	1561	904	1.38	930	1.54	955	1.70	979	1.86	1004	2.02	1028	2.19	1053	2.37	1104	2.74	1154	3.12	1200	3.49
9000	1757	1004	1.87	1028	2.04	1050	2.22	1073	2.40	1094	2.58	1116	2.77	1138	2.96	1182	3.35	1227	3.77	1272	4.19
10000	1952	1106	2.47	1127	2.67	1148	2.86	1168	3.06	1188	3.26	1208	3.46	1228	3.67	1266	4.08	1306	4.51	1346	4.97
11000	2147	1208	3.20	1228	3.41	1247	3.63	1266	3.84	1284	4.06	1302	4.28	1320	4.50	1356	4.95	1391	5.41	1426	5.88
12000	2342	1311	4.06	1329	4.30	1347	4.53	1364	4.76	1381	5.00	1398	5.24	1415	5.48	1448	5.96	1481	6.45	1513	6.95
13000	2537	1415	5.08	1432	5.33	1448	5.58	1464	5.84	1480	6.09	1496	6.35	1511	6.60	1542	7.12	1572	7.65	1602	8.18
14000	2732	1519	6.26	1534	6.53	1550	6.80	1565	7.07	1580	7.35	1594	7.62	1609	7.89	1638	8.45	1666	9.00	1694	9.57
15000	2928	1623	7.61	1637	7.90	1652	8.19	1666	8.48	1680	8.77	1694	9.07	1707	9.36	1735	9.95	1761	10.54	1788	11.14
16000	3123	1727	9.15	1741	9.46	1754	9.77	1768	10.09	1781	10.39	1794	10.70	1807	11.02	1833	11.64	1858	12.27	1883	12.91
17000	3318	1831	10.88	1845	11.22	1857	11.54	1870	11.88	1883	12.21	1895	12.53	1907	12.87	1932	13.53	1956	14.20	1979	14.86
18000	3513	1936	12.83	1949	13.19	1961	13.53	1973	13.88	1985	14.24	1997	14.59	2008	14.93	2032	15.64	2054	16.33	2077	17.05
19000	3708	2041	15.01	2053	15.38	2065	15.75	2076	16.12	2088	16.49	2099	16.87	2110	17.23	2132	17.96	2153	18.70	2175	19.44
20000	3903	2146	17.42	2157	17.81	2169	18.21	2179	18.59	2190	18.98	2201	19.37	2212	19.77	2232	20.53	2253	21.31	2274	22.08
22000	4294	2356	23.00	2366	23.43	2377	23.87	2387	24.30	2397	24.72	2407	25.15	2417	25.58	2436	26.44	2455	27.27	2473	28.13
24000	4684	2567	29.69	2576	30.15	2586	30.63	2595	31.11	2605	31.57	2614	32.03	2623	32.49	2641	33.43	2658	34.37	2675	35.27
26000	5074	2778	37.58	2786	38.08	2795	38.58	2804	39.10	2813	39.62	2821	40.12	2830	40.62	2846	41.62	2863	42.64	2879	43.65
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	976	1055	2.21	1155	2.80																
5500	1073	1081	2.42	1175	3.03	1266	3.69														
6000	1171	1110	2.65	1200	3.29	1286	3.97	1368	4.69												
6500	1269	1142	2.92	1229	3.58	1310	4.28	1389	5.02	1466	5.78										
7000	1366	1175	3.20	1259	3.89	1338	4.61	1414	5.38	1488	6.17	1558	6.99	1628	7.84						
7500	1464	1209	3.52	1292	4.24	1369	4.99	1441	5.76	1512	6.58	1581	7.43	1648	8.30	1713	9.20				
8000	1561	1244	3.87	1325	4.61	1400	5.38	1471	6.18	1539	7.02	1606	7.89	1670	8.79	1733	9.71	1795	10.65	1856	11.63
9000	1757	1315	4.61	1394	5.45	1467	6.28	1536	7.15	1601	8.02	1663	8.93	1724	9.86	1783	10.83	1841	11.84	1898	12.86
10000	1952	1388	5.45	1465	6.39	1536	7.31	1603	8.24	1666	9.17	1727	10.13	1785	11.11	1841	12.12	1896	13.16	1949	14.23
11000	2147	1463	6.38	1538	7.41	1608	8.44	1673	9.46	1734	10.47	1793	11.49	1850	12.53	1904	13.59	1957	14.67	2009	15.78
12000	2342	1545	7.45	1612	8.54	1680	9.67	1744	10.79	1805	11.91	1863	13.01	1918	14.12	1971	15.23	2022	16.37	2072	17.52
13000	2537	1632	8.71	1692	9.82	1755	11.01	1817	12.24	1877	13.46	1933	14.66	1987	15.85	2039	17.04	2090	18.25	2138	19.47
14000	2732	1722	10.14	1777	11.30	1833	12.51	1891	13.80	1950	15.14	2006	16.44	2059	17.75	2110	19.03	2159	20.30	2206	21.58
15000	2928	1814	11.75	1865	12.96	1917	14.21	1969	15.53	2024	16.92	2078	18.33	2131	19.74	2181	21.13	2230	22.51	2277	23.89
16000	3123	1908	13.54	1956	14.83	2004	16.14	2052	17.48	2102	18.89	2153	20.36	2204	21.86	2253	23.37	2301	24.86	2348	26.36
17000	3318	2003	15.55	2049	16.91	2095	18.28	2139	19.67	2184	21.10	2231	22.60	2279	24.16	2327	25.75	2374	27.35	2420	28.95
18000	3513	2099	17.74	2143	19.17	2186	20.62	2229	22.08	2271	23.57	2314	25.09	2357	26.67	2402	28.30	2448	29.99	2493	31.68
19000	3708	2196	20.19	2238	21.70	2279	23.20	2320	24.72	2360	26.27	2400	27.84	2440	29.44	2482	31.10	2524	32.82	2567	34.60
20000	3903	2294	22.86	2334	24.43	2373	26.01	2412	27.62	2451	29.22	2488	30.84	2526	32.50	2565	34.18	2604	35.91	2644	37.73
22000	4294	2492	28.99	2529	30.70	2564	32.40	2600	34.15	2636	35.90	2670	37.65	2706	39.45	2739	41.20	2774	43.03	2808	44.85
24000	4684	2692	36.20	2726	38.05	2759	39.93	2792	41.78	2825	43.70	2857	45.56	2890	47.50	2921	49.38	2953	51.35	2984	53.25
26000	5074	2894	44.62	2926	46.64	2957	48.62	2987	50.66	3017	52.65	3047	54.70	3077	56.73	3107	58.78	3136	60.86	3165	62.91
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		11"SP		12"SP		14"SP		16"SP		18"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9000	1757	1953	13.89	2063	16.06																
10000	1952	2001	15.30	2105	17.57	2204	19.89	2302	22.28												
11000	2147	2058	16.90	2156	19.24	2250	21.65	2342	24.14	2432	26.71	2521	29.36								
12000	2342	2121	18.70	2213	21.09	2303	23.58	2391	26.17	2476	28.83	2560	31.56	2724	37.23						
13000	2537	2185	20.68	2277	23.21	2364	25.79	2448	28.45	2530	31.19	2609	34.00	2765	39.82	2916	45.88				
14000	2732	2253	22.88	2341	25.49	2427	28.18	2508	30.92	2587	33.73	2664	36.62	2814	42.67	2958	48.92	3098	55.37	3235	62.05
15000	2928	2322	25.27	2409	28.01	2492	30.81	2572	33.66	2650	36.58	2725	39.57	2867	45.68	3007	52.16	3142	58.88	3274	65.74
16000	3123	2393	27.81	2479	30.74	2560	33.67	2639	36.65	2715	39.68	2787	42.73	2927	49.02	3060	55.59	3190	62.46	3317	69.53
17000	3318	2464	30.50	2549	33.63</																

Wheel Diameter = 24.50 in.
 Outlet Area = 6.21 sq. ft. inside
 Maximum BHP = 3.31 x (RPM/1000)³
 Tip Speed, fpm = 6.41 x RPM

Size

2450 DIDW

Design 5010 Centrifugal Airfoil Fans

Class I RPM 1814
 Class II RPM 2362
 Class III RPM 2971

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4000	644	416	0.23	463	0.32	503	0.41	540	0.50	575	0.59	610	0.69								
4500	725	443	0.28	489	0.38	528	0.47	563	0.57	596	0.67	628	0.78	659	0.89						
5000	805	472	0.34	515	0.44	554	0.55	589	0.66	621	0.77	651	0.88	680	0.99	736	1.23				
5500	886	503	0.41	542	0.52	580	0.63	615	0.75	646	0.87	675	0.99	703	1.11	756	1.36	807	1.62		
6000	966	535	0.49	571	0.61	607	0.73	641	0.85	672	0.98	701	1.11	728	1.24	779	1.51	827	1.78	874	2.07
6500	1047	568	0.58	601	0.71	634	0.83	667	0.97	698	1.10	727	1.24	754	1.38	803	1.66	849	1.95	894	2.25
7000	1128	602	0.68	633	0.82	663	0.95	694	1.09	724	1.24	753	1.38	780	1.53	829	1.83	874	2.14	916	2.45
7500	1208	636	0.80	665	0.94	694	1.09	722	1.23	751	1.38	779	1.54	806	1.69	854	2.01	899	2.34	940	2.67
8000	1289	670	0.93	698	1.08	726	1.23	752	1.39	779	1.55	806	1.71	832	1.87	880	2.21	925	2.55	965	2.90
9000	1450	740	1.23	766	1.40	790	1.57	815	1.75	838	1.92	862	2.09	886	2.27	933	2.64	977	3.02	1017	3.40
10000	1611	812	1.61	835	1.79	857	1.98	879	2.17	901	2.36	923	2.55	944	2.75	987	3.14	1029	3.55	1069	3.97
11000	1772	884	2.05	905	2.26	926	2.46	946	2.67	966	2.88	986	3.08	1006	3.30	1044	3.72	1083	4.16	1122	4.61
12000	1933	957	2.58	976	2.80	996	3.03	1015	3.25	1033	3.47	1052	3.70	1070	3.93	1105	4.39	1141	4.86	1176	5.33
13000	2094	1030	3.19	1048	3.43	1066	3.68	1084	3.92	1101	4.17	1118	4.41	1135	4.65	1169	5.15	1202	5.65	1234	6.15
14000	2255	1104	3.90	1121	4.16	1138	4.43	1154	4.69	1170	4.95	1187	5.21	1202	5.47	1234	6.00	1265	6.53	1295	7.07
15000	2416	1178	4.71	1194	5.00	1209	5.27	1225	5.56	1240	5.84	1255	6.12	1271	6.40	1300	6.96	1330	7.53	1358	8.10
16000	2577	1252	5.64	1267	5.94	1282	6.24	1297	6.54	1311	6.83	1326	7.14	1340	7.43	1368	8.03	1395	8.63	1423	9.24
17000	2738	1327	6.68	1341	7.00	1355	7.32	1369	7.63	1383	7.96	1396	8.27	1410	8.59	1436	9.22	1462	9.86	1488	10.49
18000	2899	1402	7.85	1415	8.18	1428	8.52	1441	8.86	1454	9.20	1467	9.53	1480	9.86	1505	10.54	1530	11.21	1555	11.89
19000	3061	1476	9.15	1489	9.50	1502	9.86	1514	10.22	1527	10.57	1539	10.93	1551	11.28	1575	12.00	1599	12.69	1622	13.40
20000	3222	1551	10.59	1564	10.96	1576	11.33	1588	11.72	1599	12.08	1611	12.46	1623	12.84	1646	13.57	1668	14.32	1691	15.07
22000	3544	1702	13.92	1713	14.34	1724	14.74	1735	15.15	1746	15.57	1756	15.98	1767	16.38	1788	17.21	1809	18.02	1829	18.84
24000	3866	1852	17.90	1863	18.36	1873	18.81	1883	19.24	1893	19.69	1903	20.15	1913	20.59	1932	21.48	1951	22.38	1970	23.26
26000	4188	2003	22.59	2013	23.08	2023	23.58	2032	24.05	2041	24.53	2050	25.01	2059	25.51	2077	26.47	2095	27.43	2113	28.41
28000	4510	2154	28.05	2163	28.57	2172	29.10	2182	29.64	2190	30.14	2198	30.65	2207	31.17	2224	32.24	2240	33.25	2257	34.30
30000	4832	2306	34.33	2314	34.89	2323	35.46	2331	36.03	2339	36.60	2347	37.14	2355	37.68	2371	38.80	2386	39.93	2402	41.02
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6500	1047	937	2.56																		
7000	1128	958	2.77	1037	3.44																
7500	1208	980	3.00	1057	3.70	1131	4.42														
8000	1289	1004	3.25	1078	3.97	1148	4.71	1218	5.51												
9000	1450	1055	3.79	1125	4.58	1191	5.38	1255	6.20	1317	7.07										
10000	1611	1107	4.39	1176	5.25	1239	6.12	1299	7.01	1357	7.92	1414	8.85	1469	9.81						
11000	1772	1159	5.06	1228	5.99	1290	6.93	1349	7.90	1404	8.86	1457	9.84	1509	10.84	1560	11.87	1610	12.94	1660	14.03
12000	1933	1212	5.82	1280	6.81	1342	7.83	1399	8.85	1453	9.89	1504	10.94	1554	12.01	1602	13.08	1649	14.18	1696	15.30
13000	2094	1267	6.67	1333	7.72	1394	8.79	1451	9.90	1504	11.01	1555	12.13	1603	13.27	1649	14.42	1695	15.57	1739	16.72
14000	2255	1325	7.61	1386	8.72	1447	9.87	1503	11.02	1556	12.21	1606	13.41	1653	14.61	1699	15.82	1742	17.04	1785	18.28
15000	2416	1386	8.67	1443	9.84	1500	11.05	1556	12.26	1608	13.51	1658	14.77	1705	16.04	1750	17.33	1793	18.63	1835	19.95
16000	2577	1449	9.85	1502	11.08	1555	12.34	1609	13.62	1660	14.92	1710	16.25	1757	17.59	1801	18.95	1844	20.33	1885	21.69
17000	2738	1514	11.14	1564	12.43	1613	13.76	1663	15.10	1713	16.46	1762	17.84	1809	19.25	1853	20.68	1896	22.12	1937	23.55
18000	2899	1579	12.56	1627	13.93	1674	15.31	1720	16.70	1768	18.13	1815	19.57	1861	21.04	1906	22.53	1948	24.03	1988	25.53
19000	3061	1646	14.12	1691	15.55	1736	16.99	1780	18.45	1824	19.93	1869	21.43	1914	22.96	1958	24.51	2000	26.08	2040	27.64
20000	3222	1713	15.81	1757	17.31	1800	18.82	1842	20.35	1883	21.89	1926	23.45	1968	25.03	2011	26.64	2053	28.27	2093	29.89
22000	3544	1850	19.66	1890	21.29	1930	22.94	1969	24.60	2007	26.27	2045	27.96	2083	29.66	2121	31.36	2160	33.10	2199	34.88
24000	3866	1989	24.17	2026	25.94	2063	27.72	2099	29.51	2135	31.32	2170	33.15	2205	34.94	2239	36.78	2274	38.65	2309	40.50
26000	4188	2130	29.36	2165	31.29	2199	33.23	2233	35.13	2266	37.07	2299	39.05	2332	40.97	2364	42.94	2396	44.91	2427	46.89
28000	4510	2273	35.36	2305	37.41	2337	39.47	2369	41.57	2400	43.60	2431	45.69	2461	47.78	2492	49.87	2522	51.98	2551	54.07
30000	4832	2417	42.13	2447	44.35	2477	46.58	2507	48.76	2536	51.02	2565	53.18	2594	55.44	2622	57.62	2651	59.91	2678	62.10
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		11"SP		12"SP		14"SP		16"SP		18"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	1933	1742	16.45																		
13000	2094	1782	17.91	1868	20.34	1953	22.89														
14000	2255	1828	19.53	1909	22.05	1988	24.64	2067	27.33												
15000	2416	1875	21.24	1954	23.90	2031	26.61	2105	29.37	2178	32.21	2251	35.14								
16000	2577	1925	23.07	2002	25.86	2075	28.68	2147	31.54	2217	34.45	2286	37.43								
17000	2738	1976	25.00	2051	27.93	2123	30.89	2193	33.87	2260	36.88	2326	39.96	2456	46.34						
18000	2899	2028	27.05	2102	30.12	2173	33.22	2241	36.34	2306	39.48	2370	42.67	2495	49.19	2617	55.98				
19000	3061	2080	29.23	2154	32.43	2224	35.68	2290	38.94	2355	42.22	2417	45.54	2538	52.26	2655	59.21	2769	66.35		
20000	3222	2131	31.54	2206	34.88	2275	38.26	2341	41.67	2404	45.09	2466	48.55	2583	55.53	2697	62.66	2807	69.92	2915	77.46
22000	3544	2236	36.63	2310	40.23	2379	43.89	2445	47.56	2507	51.25	2566	54.97	2680	62.56	2787	70.09	2891	77.76		
24000	3866	2345	42.40	2415	46.20	2483	50.08	2548	54.01	2610	57.99										

Wheel Diameter = 27.00 in.
 Outlet Area = 7.54 sq. ft. inside
 Maximum BHP = 5.38 x (RPM/1000)³
 Tip Speed, fpm = 7.07 x RPM

Class I RPM 1645
 Class II RPM 2143
 Class III RPM 2695

Size

2700 DIDW

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	663	383	0.3	425	0.4	461	0.5	494	0.6	526	0.7	557	0.9								
5500	729	404	0.3	445	0.5	480	0.6	512	0.7	542	0.8	571	1.0	599	1.1						
6000	796	425	0.4	464	0.5	500	0.7	531	0.8	560	0.9	588	1.1	614	1.2	666	1.5				
7000	928	472	0.5	505	0.7	539	0.8	570	1.0	599	1.1	625	1.3	650	1.4	696	1.7	741	2.1	785	2.4
8000	1061	521	0.7	550	0.9	580	1.0	610	1.2	638	1.4	664	1.5	688	1.7	733	2.1	774	2.4	815	2.8
9000	1194	571	0.9	598	1.1	625	1.3	651	1.5	677	1.6	703	1.8	727	2.0	771	2.4	811	2.8	849	3.2
10000	1326	623	1.2	648	1.4	672	1.6	695	1.8	719	2.0	743	2.2	766	2.4	810	2.8	850	3.2	887	3.7
11000	1459	675	1.5	698	1.7	721	1.9	742	2.1	764	2.4	785	2.6	807	2.8	849	3.2	889	3.7	926	4.2
12000	1592	729	1.9	750	2.1	771	2.3	791	2.6	811	2.8	830	3.0	850	3.3	889	3.7	928	4.2	965	4.7
13000	1724	783	2.3	802	2.6	822	2.8	841	3.1	859	3.3	878	3.5	896	3.8	932	4.3	968	4.8	1004	5.4
14000	1857	837	2.8	855	3.1	873	3.3	891	3.6	909	3.9	926	4.1	943	4.4	976	4.9	1010	5.5	1044	6.0
15000	1989	891	3.4	909	3.7	926	3.9	942	4.2	959	4.5	975	4.8	992	5.1	1023	5.6	1054	6.2	1085	6.8
16000	2122	946	4.0	963	4.3	979	4.6	994	4.9	1010	5.2	1025	5.5	1041	5.8	1071	6.4	1100	7.0	1129	7.7
17000	2255	1001	4.7	1017	5.1	1032	5.4	1047	5.7	1062	6.0	1077	6.3	1091	6.6	1120	7.3	1148	7.9	1175	8.6
18000	2387	1057	5.5	1071	5.9	1086	6.2	1100	6.5	1114	6.9	1128	7.2	1142	7.6	1169	8.2	1196	8.9	1222	9.6
19000	2520	1112	6.4	1126	6.8	1140	7.1	1153	7.5	1167	7.9	1180	8.2	1193	8.6	1219	9.3	1245	10.0	1270	10.7
20000	2653	1168	7.4	1181	7.8	1194	8.2	1207	8.5	1220	8.9	1233	9.3	1245	9.7	1270	10.4	1295	11.2	1319	11.9
22000	2918	1280	9.7	1291	10.1	1304	10.5	1315	10.9	1327	11.4	1339	11.8	1350	12.2	1373	13.0	1396	13.8	1418	14.6
24000	3183	1391	12.4	1403	12.9	1414	13.3	1425	13.8	1435	14.2	1446	14.7	1457	15.1	1478	16.0	1499	16.9	1519	17.8
26000	3448	1504	15.6	1514	16.1	1524	16.6	1535	17.1	1545	17.6	1554	18.1	1564	18.5	1584	19.5	1603	20.5	1622	21.4
28000	3714	1616	19.4	1626	19.9	1636	20.4	1645	20.9	1654	21.4	1664	22.0	1673	22.5	1691	23.5	1709	24.6	1727	25.6
30000	3979	1729	23.6	1738	24.2	1747	24.8	1756	25.3	1765	25.9	1773	26.4	1782	27.0	1799	28.1	1816	29.2	1833	30.3
32000	4244	1842	28.5	1850	29.1	1859	29.7	1867	30.3	1876	30.9	1884	31.5	1892	32.1	1908	33.3	1924	34.5	1940	35.7
34000	4509	1955	34.0	1963	34.7	1971	35.3	1979	36.0	1987	36.6	1994	37.2	2002	37.8	2018	39.1	2032	40.4	2047	41.6
36000	4775	2068	40.3	2075	40.9	2083	41.6	2091	42.3	2099	43.0	2106	43.6	2113	44.3	2127	45.6	2142	47.0	2156	48.3
38000	5040	2181	47.2	2188	47.9	2196	48.6	2203	49.3	2210	50.1	2217	50.7	2224	51.4	2238	52.8	2251	54.3	2265	55.7
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1061	853	3.1																		
9000	1194	886	3.6	955	4.4	1024	5.3														
10000	1326	922	4.1	988	5.0	1051	5.9	1112	6.9												
11000	1459	960	4.6	1024	5.6	1083	6.6	1140	7.6	1197	8.6	1252	9.7								
12000	1592	999	5.2	1062	6.3	1119	7.3	1174	8.4	1227	9.5	1278	10.6	1329	11.8						
13000	1724	1038	5.9	1100	7.0	1157	8.1	1210	9.3	1261	10.4	1310	11.6	1358	12.8	1405	14.0	1451	15.3		
14000	1857	1077	6.6	1139	7.8	1195	9.0	1248	10.2	1297	11.4	1344	12.6	1390	13.9	1435	15.2	1479	16.5	1523	17.8
15000	1989	1117	7.4	1178	8.6	1234	9.9	1286	11.2	1335	12.5	1381	13.8	1425	15.1	1469	16.5	1511	17.8	1552	19.2
16000	2122	1159	8.3	1218	9.6	1273	10.9	1325	12.2	1373	13.6	1419	15.0	1462	16.4	1504	17.8	1545	19.2	1585	20.6
17000	2255	1202	9.2	1258	10.6	1313	12.0	1364	13.4	1412	14.8	1457	16.3	1500	17.7	1541	19.2	1581	20.7	1620	22.2
18000	2387	1248	10.3	1300	11.7	1352	13.1	1403	14.6	1451	16.1	1496	17.6	1539	19.2	1579	20.7	1618	22.3	1657	23.8
19000	2520	1295	11.4	1343	12.9	1393	14.4	1442	15.9	1490	17.5	1535	19.1	1577	20.7	1618	22.3	1657	23.9	1694	25.6
20000	2653	1342	12.7	1389	14.2	1435	15.8	1483	17.4	1529	19.0	1574	20.6	1616	22.3	1657	24.0	1695	25.7	1732	27.4
22000	2918	1440	15.5	1483	17.1	1525	18.8	1567	20.5	1610	22.3	1653	24.0	1695	25.8	1735	27.6	1773	29.5	1810	31.3
24000	3183	1540	18.7	1580	20.5	1619	22.3	1658	24.2	1696	26.0	1735	27.9	1774	29.8	1813	31.7	1851	33.7	1888	35.7
26000	3448	1642	22.4	1679	24.4	1716	26.3	1752	28.3	1787	30.2	1823	32.2	1858	34.3	1895	36.3	1931	38.4	1966	40.5
28000	3714	1745	26.7	1780	28.7	1815	30.8	1849	32.9	1882	35.0	1915	37.2	1948	39.3	1981	41.5	2014	43.6	2047	45.8
30000	3979	1850	31.5	1883	33.7	1915	35.9	1947	38.1	1979	40.4	2010	42.6	2041	44.9	2071	47.2	2102	49.5	2132	51.8
32000	4244	1955	36.8	1987	39.2	2017	41.6	2047	44.0	2077	46.3	2107	48.7	2136	51.1	2165	53.6	2193	56.0	2222	58.4
34000	4509	2062	42.9	2092	45.4	2120	47.9	2149	50.5	2177	52.9	2206	55.5	2233	58.0	2261	60.5	2288	63.1	2315	65.7
36000	4775	2170	49.6	2197	52.3	2225	55.0	2252	57.6	2279	60.3	2306	62.9	2332	65.6	2358	68.2	2384	70.9	2410	73.6
38000	5040	2278	57.0	2304	59.9	2330	62.7	2356	65.5	2382	68.2	2407	71.1	2432	73.8	2457	76.7	2482	79.4	2507	82.3
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		11"SP		12"SP		14"SP		16"SP		18"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14000	1857	1566	19.2																		
15000	1989	1593	20.6	1674	23.5																
16000	2122	1624	22.1	1701	25.0	1777	28.1														
17000	2255	1658	23.7	1732	26.8	1804	29.9	1875	33.2												
18000	2387	1694	25.4	1766	28.6	1835	31.8	1903	35.2	1971	38.6										
19000	2520	1731	27.2	1801	30.6	1868	33.9	1934	37.3	1999	40.8	2063	44.5								
20000	2653	1769	29.1	1837	32.6	1903	36.1	1967	39.6	2030	43.2	2092	46.9	2211	54.5						
22000	2918	1845	33.2	1913	36.9	1977	40.7	2038	44.5	2098	48.3	2156	52.2	2268	60.1	2379	68.4				
24000	3183	1923	37.6	1990	41.7	2054	45.7	2114	49.8	2171	53.9	2227	58.1	2335	66.5	2437	75.0	2538	83.8	2638	93.0
26000	3448	2001	42.6	2068	46.8	2130	51.2	2190	55.5	2247	59.9	2302	64.4	2405	73.3	2504	82.4	2600	91.6		
28000	3714	2081	48.1	2146	52.6	2209	57.2	2268	61.8	2325	66.5	2378	71.2	2480	80.7	2576	90.2	2668	99.9		
30000	3979	2163	54.1	2225	58.9	2287	63.7	2345	68.6	2401	73.5	2455	78.4	2556	88.6	2650					

Wheel Diameter = 30.00 in.
 Outlet Area = 9.30 sq. ft. inside
 Maximum BHP = 9.12 x (RPM/1000)³
 Tip Speed, fpm = 7.85 x RPM

Size

3000 DIDW

Design 5010 Centrifugal Airfoil Fans

Class I RPM 1480
 Class II RPM 1927
 Class III RPM 2424

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6000	645	340	0.4	378	0.5	411	0.6	441	0.7	470	0.9	498	1.0								
7000	752	370	0.5	406	0.6	438	0.7	467	0.9	493	1.1	519	1.2	544	1.4						
8000	859	402	0.6	435	0.7	467	0.9	495	1.1	521	1.3	545	1.4	568	1.6	612	2.0	654	2.4		
9000	967	437	0.7	466	0.9	496	1.1	523	1.3	549	1.5	572	1.7	594	1.9	636	2.3	675	2.7	713	3.1
10000	1074	473	0.9	500	1.1	526	1.3	552	1.5	577	1.7	601	1.9	623	2.1	663	2.6	700	3.0	736	3.5
11000	1182	510	1.1	535	1.3	558	1.6	582	1.8	606	2.0	629	2.2	651	2.5	691	2.9	727	3.4	762	3.9
12000	1289	547	1.4	570	1.6	593	1.9	614	2.1	636	2.3	658	2.6	679	2.8	719	3.3	755	3.8	789	4.3
13000	1397	586	1.7	607	1.9	628	2.2	648	2.4	668	2.7	688	2.9	709	3.2	748	3.7	784	4.3	817	4.8
14000	1504	624	2.0	644	2.3	664	2.6	683	2.8	702	3.1	720	3.4	739	3.6	776	4.2	812	4.8	845	5.4
15000	1611	663	2.4	682	2.7	700	3.0	718	3.3	736	3.5	754	3.8	771	4.1	806	4.7	841	5.3	873	5.9
16000	1719	702	2.8	720	3.1	738	3.4	755	3.7	772	4.0	788	4.4	804	4.7	837	5.3	870	5.9	902	6.6
17000	1826	742	3.3	759	3.6	775	4.0	791	4.3	807	4.6	823	4.9	839	5.3	869	5.9	900	6.6	931	7.3
18000	1934	782	3.9	798	4.2	813	4.5	829	4.9	844	5.2	859	5.6	874	5.9	903	6.6	932	7.3	961	8.0
19000	2041	822	4.5	837	4.8	852	5.2	866	5.5	881	5.9	895	6.2	910	6.6	938	7.3	965	8.1	992	8.8
20000	2149	861	5.1	876	5.5	890	5.9	905	6.3	918	6.6	932	7.0	946	7.4	972	8.1	999	8.9	1024	9.7
22000	2364	942	6.6	955	7.1	968	7.5	981	7.9	994	8.3	1007	8.7	1019	9.1	1044	9.9	1068	10.8	1092	11.6
24000	2578	1023	8.5	1035	8.9	1047	9.4	1059	9.8	1071	10.3	1083	10.7	1094	11.2	1117	12.1	1140	13.0	1162	13.9
26000	2793	1104	10.6	1116	11.1	1127	11.6	1138	12.0	1149	12.5	1160	13.0	1171	13.5	1192	14.5	1213	15.4	1234	16.4
28000	3008	1186	13.1	1196	13.6	1207	14.1	1217	14.6	1227	15.2	1238	15.7	1248	16.2	1268	17.2	1287	18.3	1307	19.3
30000	3223	1267	15.9	1277	16.5	1287	17.0	1297	17.6	1307	18.1	1316	18.7	1326	19.3	1344	20.4	1363	21.5	1381	22.6
32000	3438	1349	19.1	1359	19.7	1368	20.3	1377	20.9	1386	21.5	1395	22.1	1404	22.7	1422	23.9	1439	25.1	1456	26.3
34000	3653	1431	22.8	1440	23.4	1449	24.0	1458	24.7	1466	25.3	1475	26.0	1483	26.6	1500	27.9	1516	29.1	1533	30.4
36000	3868	1513	26.9	1522	27.6	1530	28.2	1538	28.9	1546	29.6	1555	30.2	1563	30.9	1578	32.2	1594	33.6	1610	34.9
38000	4082	1595	31.4	1604	32.2	1612	32.9	1619	33.6	1627	34.3	1635	35.0	1643	35.7	1657	37.1	1672	38.5	1687	39.9
40000	4297	1678	36.5	1686	37.3	1693	38.0	1701	38.8	1708	39.5	1715	40.2	1723	41.0	1737	42.5	1751	44.0	1765	45.5
44000	4727	1843	48.3	1850	49.1	1857	49.9	1864	50.8	1871	51.6	1877	52.4	1884	53.2	1897	54.8	1910	56.5	1922	58.1
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	1074	771	3.9																		
11000	1182	794	4.4	857	5.4																
12000	1289	820	4.9	880	6.0	938	7.1	995	8.3												
13000	1397	848	5.4	906	6.6	961	7.7	1014	8.9	1066	10.2										
14000	1504	876	6.0	933	7.2	986	8.4	1037	9.7	1086	11.0	1134	12.4								
15000	1611	904	6.6	960	7.9	1012	9.2	1061	10.5	1109	11.9	1155	13.3	1200	14.7						
16000	1719	933	7.2	989	8.6	1040	10.0	1088	11.4	1133	12.8	1178	14.3	1221	15.7	1263	17.3	1305	18.8		
17000	1826	961	8.0	1017	9.4	1068	10.8	1115	12.3	1160	13.8	1202	15.3	1244	16.8	1285	18.4	1325	20.0	1365	21.6
18000	1934	990	8.7	1046	10.2	1096	11.7	1143	13.3	1187	14.8	1229	16.4	1269	18.0	1309	19.6	1347	21.3	1385	23.0
19000	2041	1020	9.6	1074	11.1	1125	12.7	1171	14.3	1215	15.9	1256	17.6	1295	19.3	1334	20.9	1371	22.6	1408	24.4
20000	2149	1050	10.5	1103	12.1	1153	13.7	1199	15.4	1243	17.1	1284	18.8	1323	20.6	1360	22.3	1397	24.1	1433	25.9
22000	2364	1116	12.5	1163	14.2	1210	16.0	1256	17.8	1300	19.6	1340	21.5	1379	23.4	1415	25.2	1450	27.1	1485	29.1
24000	2578	1184	14.8	1227	16.6	1270	18.5	1314	20.4	1356	22.4	1397	24.4	1435	26.4	1471	28.4	1507	30.5	1540	32.5
26000	2793	1254	17.4	1294	19.4	1334	21.4	1374	23.4	1415	25.5	1454	27.6	1492	29.8	1528	31.9	1563	34.1	1596	36.3
28000	3008	1326	20.4	1364	22.5	1401	24.6	1438	26.8	1475	29.0	1512	31.2	1549	33.5	1585	35.7	1619	38.1	1653	40.4
30000	3223	1399	23.7	1435	26.0	1470	28.2	1504	30.5	1539	32.8	1573	35.2	1608	37.6	1643	40.0	1677	42.4	1709	44.9
32000	3438	1474	27.5	1508	29.9	1541	32.3	1573	34.7	1605	37.1	1637	39.6	1669	42.1	1702	44.6	1735	47.1	1767	49.7
34000	3653	1549	31.6	1581	34.2	1612	36.7	1644	39.3	1674	41.9	1704	44.4	1734	47.0	1764	49.7	1795	52.3	1825	55.0
36000	3868	1625	36.3	1656	38.9	1685	41.6	1715	44.3	1744	47.0	1773	49.7	1801	52.4	1829	55.2	1858	58.0	1886	60.8
38000	4082	1702	41.3	1731	44.1	1759	47.0	1788	49.8	1815	52.6	1843	55.5	1870	58.4	1897	61.2	1923	64.1	1950	67.0
40000	4297	1779	46.9	1807	49.9	1834	52.8	1861	55.8	1888	58.8	1914	61.8	1940	64.8	1966	67.8	1991	70.8	2016	73.9
44000	4727	1935	59.7	1960	62.9	1986	66.2	2010	69.4	2035	72.7	2059	75.9	2083	79.2	2106	82.5	2130	85.7	2153	89.0
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		11"SP		12"SP		14"SP		16"SP		18"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17000	1826	1405	23.4																		
18000	1934	1423	24.7																		
19000	2041	1444	26.1	1516	29.7																
20000	2149	1468	27.7	1537	31.4	1604	35.2														
22000	2364	1519	31.0	1583	34.9	1646	38.9	1708	43.0	1769	47.2										
24000	2578	1572	34.6	1635	38.8	1695	43.0	1754	47.3	1811	51.7	1867	56.1								
26000	2793	1629	38.6	1689	43.0	1748	47.5	1804	52.0	1859	56.6	1912	61.3	2016	70.8	2119	81.0				
28000	3008	1684	42.7	1745	47.5	1803	52.3	1858	57.2	1910	62.0	1961	66.8	2061	76.9	2157	87.1	2252	97.8		
30000	3223	1741	47.3	1802	52.3	1858	57.4	1912	62.5	1964	67.6	2014	72.8	2110	83.3	2203	94.0	2292	104.9	2381	116.2
32000	3438	1798	52.3	1858	57.6	1915	62.9	1968	68.3	2019	73.7	2069	79.2	2162	90.2	2251	101.3	2338	112.7		
34000	3653	1856	57.7	1915	63.2	1971	68.8	2025	74.4	2075	80.1	2125	85.9	2216	97.4	2303	109.1	2387	120.9		
36000	3868	1915	63.6	1972	69.3	2028	75.1	2081	81.0	2132	87.0	2181	93.1	2271	105.1	2357	117.3				
38000	4082	1977	70.0	2031	75.9	208															

Wheel Diameter = 33.00 in.
 Outlet Area = 11.26 sq. ft. inside
 Maximum BHP = 14.5 x (RPM/1000)³
 Tip Speed, fpm = 8.64 x RPM

Size

3300 DIDW

Design 5010 Centrifugal Airfoil Fans

Class I RPM 1348
 Class II RPM 1755
 Class III RPM 2207

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9000	799	350	0.6	380	0.8	407	1.0	432	1.1	457	1.3	481	1.5	503	1.7	548	2.2				
10000	887	375	0.7	403	0.9	429	1.1	453	1.3	476	1.5	499	1.7	520	2.0	562	2.4	602	2.9		
11000	976	401	0.9	428	1.1	453	1.3	476	1.5	498	1.8	519	2.0	539	2.2	578	2.7	616	3.2	652	3.7
12000	1065	428	1.0	453	1.3	477	1.5	499	1.7	520	2.0	540	2.2	559	2.5	597	3.0	633	3.5	667	4.1
13000	1153	455	1.2	479	1.5	502	1.7	523	2.0	543	2.3	562	2.5	581	2.8	617	3.3	651	3.9	684	4.4
14000	1242	483	1.5	505	1.7	527	2.0	547	2.3	567	2.5	585	2.8	603	3.1	638	3.7	671	4.3	702	4.9
15000	1331	511	1.7	532	2.0	553	2.3	573	2.6	591	2.9	609	3.2	627	3.5	660	4.1	691	4.7	722	5.3
16000	1420	539	2.0	559	2.3	579	2.6	598	2.9	616	3.2	634	3.5	650	3.8	682	4.5	713	5.2	742	5.8
17000	1508	568	2.3	587	2.6	606	3.0	624	3.3	642	3.6	658	3.9	675	4.3	706	5.0	736	5.7	764	6.4
18000	1597	597	2.7	615	3.0	633	3.4	651	3.7	667	4.0	684	4.4	700	4.7	730	5.4	759	6.2	786	6.9
19000	1686	626	3.1	643	3.4	660	3.8	677	4.1	693	4.5	709	4.8	725	5.2	754	6.0	782	6.7	809	7.5
20000	1774	655	3.5	672	3.9	688	4.2	704	4.6	720	5.0	735	5.4	750	5.7	779	6.5	806	7.3	832	8.1
22000	1952	715	4.5	730	4.9	745	5.3	759	5.7	774	6.1	788	6.5	802	6.9	829	7.8	855	8.6	880	9.5
24000	2129	774	5.7	788	6.1	802	6.6	815	7.0	829	7.5	842	7.9	855	8.3	881	9.2	906	10.1	930	11.1
26000	2307	835	7.0	847	7.5	860	8.0	872	8.5	885	9.0	897	9.5	910	9.9	934	10.9	957	11.9	980	12.8
28000	2484	895	8.6	907	9.2	918	9.7	930	10.2	942	10.7	953	11.2	965	11.7	988	12.8	1010	13.8	1032	14.8
30000	2662	956	10.5	967	11.0	978	11.6	989	12.1	999	12.7	1010	13.2	1021	13.8	1042	14.9	1064	16.0	1084	17.1
32000	2839	1017	12.5	1027	13.1	1037	13.7	1047	14.3	1058	14.9	1068	15.5	1078	16.1	1098	17.2	1118	18.4	1138	19.6
34000	3017	1078	14.9	1087	15.5	1097	16.1	1106	16.7	1116	17.4	1126	18.0	1135	18.6	1154	19.9	1173	21.1	1192	22.4
36000	3194	1139	17.5	1148	18.1	1157	18.8	1166	19.5	1175	20.1	1184	20.8	1193	21.5	1211	22.8	1229	24.1	1247	25.4
38000	3372	1200	20.4	1209	21.1	1217	21.8	1226	22.5	1234	23.2	1243	23.9	1252	24.6	1269	26.0	1286	27.4	1303	28.8
40000	3549	1261	23.6	1270	24.2	1278	25.1	1286	25.8	1294	26.6	1302	27.3	1310	28.0	1327	29.5	1343	31.0	1359	32.5
44000	3904	1384	31.1	1392	31.9	1399	32.8	1407	33.5	1414	34.4	1422	35.2	1429	36.0	1444	37.6	1458	39.2	1473	40.8
48000	4259	1507	40.1	1514	41.0	1521	41.9	1528	42.7	1535	43.6	1542	44.5	1548	45.4	1562	47.1	1575	48.9	1589	50.7
52000	4614	1630	50.6	1637	51.6	1644	52.5	1650	53.5	1656	54.4	1662	55.4	1669	56.3	1681	58.3	1693	60.1	1706	62.0
56000	4969	1754	62.9	1760	63.9	1766	64.9	1772	66.0	1778	67.0	1784	68.0	1789	69.0	1801	71.1	1813	73.2	1824	75.2
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	1065	700	4.6																		
13000	1153	716	5.0	778	6.2																
14000	1242	733	5.5	792	6.7	848	8.1														
15000	1331	751	6.0	808	7.3	862	8.7	915	10.1												
16000	1420	771	6.5	826	7.9	877	9.3	928	10.7	977	12.3										
17000	1508	791	7.1	844	8.5	894	10.0	943	11.5	990	13.0	1036	14.7								
18000	1597	813	7.7	864	9.2	913	10.7	960	12.3	1005	13.9	1049	15.5	1093	17.2						
19000	1686	835	8.3	884	9.9	932	11.4	977	13.1	1021	14.7	1064	16.4	1106	18.2	1148	20.0				
20000	1774	857	9.0	906	10.6	952	12.3	996	13.9	1039	15.7	1080	17.4	1121	19.2	1161	21.1	1200	23.0		
22000	1952	904	10.4	950	12.2	994	14.0	1036	15.9	1076	17.7	1116	19.5	1154	21.4	1192	23.4	1229	25.4	1265	27.4
24000	2129	953	12.0	996	13.9	1038	16.0	1078	17.9	1117	19.9	1154	21.9	1191	23.9	1227	25.9	1262	28.0	1296	30.1
26000	2307	1002	13.9	1044	15.9	1084	18.0	1123	20.2	1160	22.4	1196	24.5	1231	26.6	1265	28.8	1299	31.0	1332	33.2
28000	2484	1053	15.9	1093	18.1	1132	20.3	1169	22.6	1205	24.9	1239	27.3	1273	29.6	1305	31.8	1337	34.1	1369	36.4
30000	2662	1105	18.2	1143	20.5	1181	22.8	1216	25.2	1251	27.7	1284	30.2	1316	32.7	1348	35.1	1379	37.6	1409	40.1
32000	2839	1157	20.8	1195	23.2	1230	25.6	1265	28.1	1298	30.7	1330	33.3	1361	35.9	1392	38.6	1422	41.3	1451	43.9
34000	3017	1210	23.6	1246	26.1	1281	28.7	1315	31.4	1347	34.0	1378	36.7	1408	39.4	1438	42.2	1467	45.1	1495	47.9
36000	3194	1265	26.7	1299	29.4	1333	32.1	1365	34.8	1396	37.6	1426	40.4	1456	43.3	1484	46.2	1512	49.1	1540	52.1
38000	3372	1319	30.2	1352	33.0	1385	35.8	1416	38.6	1446	41.5	1476	44.5	1504	47.4	1532	50.4	1559	53.5	1586	56.6
40000	3549	1375	33.9	1407	36.9	1438	39.8	1468	42.8	1497	45.8	1526	48.8	1554	51.9	1581	55.0	1607	58.2	1633	61.4
44000	3904	1488	42.4	1517	45.7	1545	48.9	1573	52.1	1601	55.3	1628	58.6	1654	61.9	1680	65.3	1705	68.7	1730	72.1
48000	4259	1602	52.4	1629	55.9	1655	59.4	1681	62.9	1707	66.4	1733	69.9	1757	73.4	1782	77.0	1806	80.7	1829	84.3
52000	4614	1718	64.0	1743	67.7	1767	71.5	1792	75.3	1815	79.0	1839	82.9	1863	86.6	1886	90.4	1909	94.3	1931	98.2
56000	4969	1835	77.2	1858	81.3	1881	85.4	1903	89.4	1926	93.5	1948	97.5	1970	101.7	1992	105.6	2014	109.8	2035	113.8
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		11"SP		12"SP		14"SP		16"SP		18"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22000	1952	1301	29.5																		
24000	2129	1331	32.3	1397	36.7	1462	41.3														
26000	2307	1364	35.4	1427	40.0	1489	44.7	1549	49.6												
28000	2484	1400	38.8	1461	43.6	1519	48.5	1577	53.5	1633	58.7	1689	64.0								
30000	2662	1439	42.5	1497	47.5	1554	52.6	1609	57.8	1663	63.2	1716	68.6	1820	79.9						
32000	2839	1480	46.5	1536	51.7	1591	57.0	1644	62.5	1696	68.0	1746	73.6	1845	85.2	1943	97.3				
34000	3017	1522	50.7	1577	56.2	1629	61.8	1681	67.4	1731	73.1	1780	78.9	1875	90.9	1968	103.2	2059	116.1		
36000	3194	1567	55.1	1619	61.0	1670	66.9	1720	72.7	1768	78.6	1815	84.6	1908	97.1	1997	109.7	2084	122.7	2170	136.3
38000	3372	1612	59.7	1663	66.0	1712	72.2	1760	78.4	1807	84.5	1853	90.7	1943	103.6	2029	116.6	2113	129.9	2195	143.7
40000	3549	1658	64.6	1708	71.2	1756	77.9	1803	84.4	1848	90.8	1893	97.2	1980	110.4	2063	123.9	2145	137.6		
44000	3904	1754	75.5	1801	82.5	1846	89.7	1891	97.0	1934	104.3	1976	111.3	2058	125.5						

Wheel Diameter = 36.50 in.
 Outlet Area = 13.78 sq. ft. inside
 Maximum BHP = 24.0 x (RPM/1000)³
 Tip Speed, fpm = 9.56 x RPM

Size

3650 DIDW

Design 5010 Centrifugal Airfoil Fans

Class I RPM 1219
 Class II RPM 1587
 Class III RPM 1996

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11000	798	316	0.7	343	0.9	368	1.2	391	1.4	413	1.6	434	1.9	455	2.1	495	2.6				
12000	870	335	0.8	360	1.1	384	1.3	406	1.6	427	1.8	448	2.1	467	2.3	505	2.9	542	3.5		
13000	943	354	1.0	379	1.2	401	1.5	422	1.8	443	2.0	462	2.3	481	2.6	517	3.2	552	3.8	585	4.4
14000	1015	373	1.2	397	1.4	419	1.7	439	2.0	459	2.3	477	2.6	495	2.9	530	3.5	563	4.1	596	4.7
15000	1088	393	1.3	416	1.6	437	1.9	457	2.2	475	2.5	493	2.8	511	3.2	544	3.8	576	4.4	607	5.1
16000	1160	413	1.5	435	1.8	455	2.1	474	2.5	493	2.8	510	3.1	527	3.5	559	4.1	590	4.8	620	5.5
17000	1233	434	1.8	455	2.1	474	2.4	493	2.7	510	3.1	527	3.4	543	3.8	575	4.5	604	5.2	633	5.9
18000	1305	454	2.0	474	2.3	493	2.7	511	3.0	528	3.4	545	3.8	560	4.1	591	4.9	620	5.6	648	6.4
19000	1378	475	2.3	494	2.6	512	3.0	530	3.4	547	3.7	562	4.1	578	4.5	607	5.3	635	6.1	662	6.9
20000	1451	497	2.6	514	3.0	532	3.3	549	3.7	565	4.1	581	4.5	596	4.9	624	5.7	652	6.5	678	7.4
22000	1596	539	3.3	556	3.7	572	4.1	588	4.5	603	4.9	618	5.3	632	5.8	659	6.6	685	7.5	710	8.5
24000	1741	582	4.1	598	4.5	613	5.0	627	5.4	642	5.9	656	6.3	669	6.8	695	7.7	720	8.7	744	9.7
26000	1886	626	5.0	640	5.5	654	6.0	668	6.5	681	6.9	695	7.4	708	7.9	733	8.9	756	9.9	779	11.0
28000	2031	670	6.1	683	6.6	696	7.1	709	7.7	722	8.2	734	8.7	747	9.2	770	10.3	793	11.3	815	12.4
30000	2176	714	7.4	726	7.9	739	8.5	751	9.0	763	9.6	774	10.1	786	10.7	809	11.8	831	12.9	852	14.1
32000	2321	759	8.8	770	9.4	782	10.0	793	10.5	804	11.1	815	11.7	826	12.3	848	13.5	869	14.7	890	15.9
34000	2466	803	10.3	814	11.0	825	11.6	836	12.2	846	12.9	857	13.5	867	14.1	888	15.4	908	16.6	928	17.9
36000	2611	848	12.1	858	12.8	868	13.5	879	14.1	889	14.8	899	15.5	908	16.1	928	17.4	948	18.8	967	20.1
38000	2756	893	14.1	903	14.8	912	15.5	922	16.2	931	16.9	941	17.6	950	18.3	969	19.7	988	21.1	1006	22.5
40000	2901	938	16.3	947	17.0	956	17.8	965	18.5	975	19.2	984	20.0	992	20.7	1010	22.2	1028	23.6	1046	25.1
44000	3191	1029	21.3	1037	22.1	1045	23.0	1053	23.8	1061	24.6	1070	25.4	1078	26.2	1094	27.8	1110	29.4	1127	31.0
48000	3481	1119	27.4	1127	28.3	1134	29.1	1142	30.0	1149	30.9	1157	31.8	1164	32.7	1179	34.4	1194	36.2	1209	37.9
52000	3771	1210	34.4	1217	35.4	1224	36.4	1231	37.3	1238	38.3	1245	39.3	1252	40.2	1265	42.1	1279	44.0	1293	45.9
56000	4061	1301	42.7	1307	43.7	1314	44.8	1320	45.8	1327	46.8	1333	47.8	1340	48.9	1352	50.9	1365	53.0	1378	55.0
60000	4352	1392	52.2	1398	53.3	1404	54.4	1410	55.5	1416	56.6	1422	57.7	1428	58.8	1440	61.0	1452	63.2	1464	65.4
65000	4714	1506	65.9	1511	67.1	1517	68.3	1523	69.6	1529	70.7	1534	71.9	1539	73.1	1550	75.5	1561	77.9	1572	80.2
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14000	1015	627	5.4																		
15000	1088	637	5.8																		
16000	1160	648	6.2	704	7.7																
17000	1233	661	6.6	714	8.2	766	9.8														
18000	1305	674	7.1	726	8.7	775	10.4	824	12.1												
19000	1378	688	7.6	739	9.3	787	11.0	833	12.8												
20000	1451	703	8.2	752	9.9	799	11.6	843	13.5	887	15.3										
22000	1596	734	9.4	781	11.2	825	13.0	867	15.0	908	16.9	948	19.0	988	21.1						
24000	1741	767	10.7	811	12.7	853	14.6	894	16.6	933	18.7	971	20.8	1008	23.0	1045	25.3	1081	27.6		
26000	1886	801	12.0	844	14.2	884	16.4	923	18.5	960	20.7	997	22.9	1032	25.2	1067	27.5	1101	29.9	1134	32.3
28000	2031	837	13.6	877	15.9	916	18.2	953	20.5	989	22.8	1024	25.1	1058	27.5	1091	30.0	1124	32.4	1156	34.9
30000	2176	873	15.3	912	17.7	949	20.2	985	22.7	1020	25.1	1053	27.6	1086	30.1	1118	32.6	1150	35.2	1180	37.8
32000	2321	910	17.1	948	19.7	984	22.2	1018	24.9	1052	27.6	1084	30.2	1116	32.8	1147	35.5	1177	38.1	1206	40.8
34000	2466	947	19.2	984	21.8	1019	24.5	1053	27.3	1085	30.2	1116	33.0	1147	35.8	1177	38.6	1206	41.3	1234	44.1
36000	2611	985	21.5	1021	24.2	1055	27.0	1087	29.9	1119	32.9	1149	35.9	1179	38.9	1208	41.8	1236	44.7	1263	47.7
38000	2756	1024	23.9	1058	26.8	1091	29.7	1123	32.7	1153	35.8	1183	38.9	1212	42.1	1240	45.3	1267	48.3	1294	51.4
40000	2901	1063	26.6	1096	29.6	1128	32.6	1159	35.7	1189	38.9	1217	42.1	1246	45.4	1273	48.8	1299	52.1	1325	55.4
44000	3191	1142	32.7	1174	35.9	1204	39.2	1233	42.5	1262	46.0	1289	49.4	1315	52.9	1341	56.4	1367	60.0	1392	63.7
48000	3481	1224	39.7	1253	43.2	1282	46.8	1309	50.4	1336	54.0	1362	57.6	1387	61.4	1412	65.2	1436	68.9	1460	72.8
52000	3771	1307	47.8	1334	51.6	1360	55.4	1387	59.3	1412	63.1	1437	67.0	1461	71.0	1485	75.0	1508	79.0	1531	83.1
56000	4061	1391	57.1	1416	61.2	1441	65.2	1466	69.3	1490	73.5	1513	77.6	1537	81.8	1560	86.0	1582	90.3	1604	94.6
60000	4352	1476	67.6	1499	72.0	1523	76.3	1546	80.7	1569	85.1	1591	89.5	1614	93.8	1636	98.4	1657	102.8	1678	107.4
65000	4714	1583	82.6	1605	87.3	1627	92.1	1648	96.8	1669	101.5	1691	106.3	1711	110.9	1732	115.7	1752	120.4	1772	125.3
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		11"SP		12"SP		14"SP		16"SP		18"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
26000	1886	1168	34.8																		
28000	2031	1188	37.5	1250	42.8																
30000	2176	1210	40.4	1270	45.9	1328	51.6														
32000	2321	1235	43.6	1292	49.3	1348	55.1	1403	61.1												
34000	2466	1262	47.0	1317	52.8	1371	58.8	1423	65.0	1474	71.3	1525	77.8								
36000	2611	1291	50.7	1344	56.7	1396	62.9	1446	69.2	1495	75.6	1544	82.2								
38000	2756	1321	54.5	1372	60.8	1422	67.1	1471	73.7	1519	80.3	1565	87.1	1657	101.2						
40000	2901	1351	58.7	1401	65.1	1450	71.7	1497	78.4	1544	85.3	1589	92.3	1678	106.6	1764	121.5				
44000	3191	1416	67.3	1463	74.6	1509	81.7	1554	88.8	1598	96.1	1641	103.4	1725	118.7	1805	134.0	1884	150.0	1962	166.6
48000	3481	1484	76.8	1529	84.7	1572	92.6	1615	100.4	1657	108.2	1698	115.9	1777	131.7	1853	148.0	1928	164.8		
52000	3771	1553	87.2	1596	95.6	1638	104.2	1679	112.7	1719	121.2	1758	129.6	1834	146.3	1907	163.5	1978	180.9		
56000	4061	1625	98.9	1666	107.7	1707	116.6	1746	125.8	1784	135.1	1822	144.4	1894	162.2	1964	180.2				

Wheel Diameter = 40.25 in.
 Outlet Area = 16.76 sq. ft. inside
 Maximum BHP = 39.1 x (RPM/1000)³
 Tip Speed, fpm = 10.5 x RPM

Class I RPM 1105
 Class II RPM 1439
 Class III RPM 1811

Size

4025 DIDW

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13000	775	282	0.8	306	1.1	329	1.4	350	1.6	371	1.9	390	2.2	409	2.5						
14000	835	295	1.0	319	1.2	341	1.5	361	1.8	381	2.1	400	2.4	418	2.7	453	3.4				
15000	895	309	1.1	332	1.4	353	1.7	373	2.0	392	2.3	410	2.6	428	3.0	462	3.6	494	4.3		
16000	954	324	1.2	346	1.5	366	1.9	385	2.2	404	2.5	421	2.9	438	3.2	471	3.9	502	4.6	532	5.4
18000	1074	353	1.6	374	1.9	393	2.3	411	2.6	428	3.0	444	3.4	460	3.8	491	4.5	520	5.3	548	6.1
20000	1193	383	2.0	402	2.4	420	2.7	438	3.1	454	3.5	469	4.0	484	4.4	513	5.2	541	6.0	567	6.9
22000	1312	414	2.5	432	2.9	449	3.3	465	3.7	480	4.2	495	4.6	510	5.1	537	6.0	563	6.9	588	7.8
24000	1431	445	3.1	462	3.5	478	3.9	493	4.4	508	4.9	522	5.3	536	5.8	562	6.8	587	7.8	611	8.8
26000	1551	477	3.7	492	4.2	507	4.7	522	5.2	536	5.6	550	6.1	563	6.7	588	7.7	612	8.8	635	9.9
28000	1670	509	4.5	523	5.0	537	5.5	551	6.0	565	6.5	578	7.1	590	7.6	615	8.7	638	9.8	660	11.0
30000	1789	541	5.3	555	5.9	568	6.4	581	7.0	594	7.6	606	8.1	619	8.7	642	9.9	664	11.0	685	12.2
32000	1908	574	6.3	587	6.9	599	7.5	611	8.1	624	8.7	636	9.3	647	9.9	670	11.1	691	12.3	712	13.6
34000	2028	607	7.4	619	8.0	630	8.7	642	9.3	654	9.9	665	10.5	676	11.2	698	12.5	719	13.8	739	15.1
36000	2147	640	8.6	651	9.3	662	10.0	673	10.6	684	11.3	695	11.9	706	12.6	727	14.0	747	15.3	766	16.7
38000	2266	673	10.0	684	10.7	694	11.4	705	12.1	715	12.8	725	13.5	736	14.2	756	15.6	775	17.0	794	18.5
40000	2386	706	11.5	716	12.2	726	13.0	736	13.7	746	14.5	756	15.2	766	15.9	785	17.4	804	18.9	822	20.4
44000	2624	773	15.0	782	15.8	791	16.6	800	17.4	809	18.2	818	19.0	827	19.8	845	21.4	863	23.1	880	24.7
48000	2863	840	19.1	848	20.0	857	20.9	865	21.7	873	22.6	882	23.5	890	24.4	906	26.1	923	27.9	939	29.7
52000	3101	907	23.9	915	24.9	923	25.8	930	26.8	938	27.7	946	28.7	953	29.7	969	31.6	984	33.5	999	35.4
56000	3340	975	29.5	982	30.6	989	31.6	996	32.6	1003	33.7	1010	34.7	1018	35.7	1032	37.8	1046	39.9	1060	41.9
60000	3578	1042	36.0	1049	37.1	1056	38.2	1062	39.3	1069	40.4	1076	41.5	1082	42.6	1096	44.9	1109	47.0	1122	49.2
65000	3877	1127	45.4	1133	46.6	1140	47.8	1146	48.9	1152	50.1	1158	51.4	1164	52.6	1176	54.9	1188	57.3	1200	59.7
70000	4175	1212	56.2	1218	57.5	1224	58.9	1229	60.1	1235	61.4	1241	62.7	1246	64.0	1257	66.5	1269	69.1	1280	71.7
75000	4473	1297	68.8	1302	70.2	1308	71.6	1313	73.0	1318	74.3	1324	75.6	1329	77.0	1339	79.8	1350	82.5	1360	85.3
80000	4771	1382	83.1	1387	84.5	1392	86.0	1397	87.5	1402	89.0	1407	90.4	1412	91.8	1422	94.8	1432	97.8	1441	100.6
85000	5069	1467	99.2	1472	100.8	1477	102.4	1481	104.0	1486	105.6	1491	107.1	1495	108.6	1505	111.7	1514	114.8	1523	117.9
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18000	1074	576	6.9																		
20000	1193	593	7.8	642	9.6																
22000	1312	613	8.7	659	10.6	704	12.7	748	14.8												
24000	1431	634	9.8	679	11.8	721	13.9	762	16.1	802	18.4										
26000	1551	657	11.0	700	13.1	741	15.3	779	17.6	817	20.0	855	22.4								
28000	1670	681	12.2	722	14.5	761	16.8	799	19.2	835	21.7	870	24.2	905	26.8	939	29.5				
30000	1789	706	13.5	745	16.0	783	18.5	819	21.0	854	23.6	888	26.2	921	28.9	954	31.6	986	34.5	1018	37.4
32000	1908	732	14.9	770	17.6	806	20.2	841	22.9	875	25.5	908	28.3	940	31.1	971	33.9	1001	36.8	1031	39.8
34000	2028	758	16.4	795	19.2	830	22.1	864	24.9	896	27.7	928	30.5	959	33.4	989	36.4	1019	39.4	1048	42.4
36000	2147	785	18.1	821	21.0	855	24.1	887	27.0	919	30.0	950	32.9	980	35.9	1009	39.0	1038	42.1	1066	45.3
38000	2266	812	20.0	847	23.0	880	26.1	912	29.2	943	32.4	972	35.5	1001	38.6	1030	41.8	1058	45.0	1085	48.3
40000	2386	840	21.9	874	25.1	906	28.3	937	31.6	967	34.9	996	38.2	1024	41.5	1051	44.7	1079	48.1	1105	51.4
44000	2624	897	26.4	929	29.7	959	33.2	989	36.7	1017	40.3	1045	44.0	1072	47.6	1098	51.2	1123	54.8	1148	58.4
48000	2863	955	31.5	985	35.0	1014	38.7	1042	42.5	1069	46.3	1096	50.2	1121	54.1	1146	58.1	1171	62.2	1194	66.1
52000	3101	1014	37.3	1042	41.1	1070	45.0	1097	49.0	1123	53.1	1148	57.2	1173	61.4	1197	65.6	1220	69.9	1243	74.2
56000	3340	1074	43.9	1101	48.0	1128	52.2	1153	56.4	1178	60.7	1203	65.0	1226	69.5	1249	73.9	1271	78.3	1294	83.0
60000	3578	1135	51.4	1161	55.8	1186	60.2	1210	64.7	1234	69.2	1258	73.8	1281	78.4	1303	83.1	1324	87.8	1346	92.6
65000	3877	1212	62.1	1236	66.9	1260	71.6	1283	76.3	1306	81.1	1328	86.0	1350	90.9	1371	95.9	1392	100.9	1412	105.9
70000	4175	1291	74.2	1313	79.3	1336	84.4	1357	89.6	1379	94.6	1400	99.8	1421	105.0	1441	110.2	1461	115.6	1480	120.9
75000	4473	1371	88.0	1392	93.5	1412	98.9	1433	104.4	1453	109.9	1473	115.3	1493	120.8	1512	126.3	1531	131.9	1550	137.6
80000	4771	1451	103.6	1471	109.4	1490	115.3	1509	121.0	1528	126.8	1547	132.6	1566	138.4	1585	144.3	1603	150.1	1621	156.1
85000	5069	1532	121.0	1550	127.2	1569	133.3	1587	139.5	1605	145.7	1623	151.8	1641	158.0	1658	164.1	1676	170.3	1693	176.5
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		11"SP		12"SP		14"SP		16"SP		18"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
32000	1908	1062	42.8																		
34000	2028	1077	45.6	1133	52.0																
36000	2147	1094	48.5	1147	55.0	1201	61.9														
38000	2266	1112	51.6	1164	58.3	1215	65.3	1265	72.5												
40000	2386	1131	54.9	1182	61.8	1231	68.9	1279	76.3	1327	83.9										
44000	2624	1173	62.0	1221	69.4	1268	76.9	1313	84.6	1358	92.5	1402	100.5	1489	117.5						
48000	2863	1218	69.9	1264	77.8	1308	85.7	1352	93.9	1394	102.1	1435	110.5	1516	127.8	1595	145.9				
52000	3101	1266	78.6	1309	87.0	1352	95.4	1393	103.9	1433	112.6	1473	121.5	1550	139.5	1625	158.2	1698	177.4		
56000	3340	1315	87.6	1357	96.9	1398	106.1	1437	115.1	1476	124.2	1514	133.3	1588	152.3	1659	171.5	1728	191.3	1796	211.8
60000	3578	1366	97.4	1406	107.3	1446	117.2	1484	127.0	1521	136.6	1557	146.3	1628	166.0	1697	186.2	1763	206.7		
65000	3877	1432	111.0	1470	121.4	1508	132.0	1544	142.8	1580	153.5	1615	164.0	1682	184.8	1747	205.8	1811	227.5		
70000	4175	1499	126.3	1537	137.2	1573	148.3	1608	159.7	1642	171.1	1675	18								

Wheel Diameter = 44.50 in.
 Outlet Area = 20.49 sq. ft. inside
 Maximum BHP = 64.5 x (RPM/1000)³
 Tip Speed, fpm = 11.7 x RPM

Size

4450 DIDW

Design 5010 Centrifugal Airfoil Fans

Class I RPM 1000
 Class II RPM 1302
 Class III RPM 1638

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16000	781	256	1.0	278	1.4	298	1.7	318	2.0	336	2.4	354	2.7	371	3.1	405	3.9				
18000	878	276	1.3	297	1.6	317	2.0	335	2.4	352	2.8	369	3.1	384	3.5	415	4.3	445	5.2		
20000	976	298	1.6	317	2.0	336	2.4	353	2.8	369	3.2	385	3.6	400	4.0	429	4.9	457	5.8	484	6.7
22000	1073	319	1.9	338	2.3	355	2.8	372	3.2	387	3.7	402	4.1	416	4.6	444	5.5	470	6.5	496	7.4
24000	1171	341	2.3	359	2.8	376	3.2	391	3.7	406	4.2	420	4.7	434	5.2	461	6.2	486	7.2	510	8.2
26000	1269	364	2.8	381	3.3	396	3.8	412	4.3	426	4.8	439	5.3	453	5.9	478	7.0	502	8.0	525	9.1
28000	1366	387	3.3	403	3.9	418	4.4	432	4.9	446	5.5	459	6.0	472	6.6	496	7.7	519	8.9	541	10.1
30000	1464	410	3.9	425	4.5	439	5.0	453	5.6	466	6.2	479	6.8	491	7.4	515	8.6	537	9.9	558	11.1
32000	1561	434	4.6	448	5.2	461	5.8	474	6.4	487	7.0	499	7.6	511	8.2	534	9.5	555	10.8	576	12.2
34000	1659	458	5.4	471	6.0	484	6.6	496	7.3	508	7.9	520	8.5	532	9.2	554	10.5	575	11.9	595	13.3
36000	1757	482	6.2	494	6.9	506	7.6	518	8.2	530	8.9	541	9.6	552	10.2	574	11.6	594	13.1	614	14.5
38000	1854	506	7.2	517	7.9	529	8.6	540	9.3	552	10.0	563	10.7	574	11.4	594	12.8	614	14.3	633	15.9
40000	1952	530	8.2	541	8.9	552	9.7	563	10.4	574	11.1	584	11.9	595	12.6	615	14.1	634	15.7	653	17.3
44000	2147	579	10.5	589	11.4	599	12.2	609	13.0	619	13.8	629	14.6	638	15.4	657	17.1	675	18.7	693	20.4
48000	2342	628	13.4	637	14.2	646	15.1	655	16.0	665	16.9	674	17.8	683	18.7	700	20.4	718	22.2	734	24.0
52000	2537	677	16.6	686	17.6	694	18.6	703	19.5	711	20.5	720	21.4	728	22.4	744	24.3	761	26.2	777	28.2
56000	2732	727	20.5	735	21.5	742	22.5	750	23.6	758	24.6	766	25.6	774	26.7	789	28.7	805	30.8	820	32.8
60000	2928	776	24.9	784	25.9	791	27.1	798	28.2	806	29.3	813	30.4	820	31.5	835	33.7	849	35.9	864	38.1
65000	3172	839	31.2	845	32.4	852	33.5	859	34.8	866	35.9	873	37.2	879	38.4	893	40.7	906	43.1	919	45.5
70000	3415	901	38.5	907	39.8	914	41.1	920	42.4	926	43.7	933	44.9	939	46.2	951	48.8	964	51.4	976	53.9
75000	3659	964	46.9	970	48.4	976	49.7	981	51.1	987	52.5	993	53.9	999	55.2	1011	58.0	1022	60.7	1034	63.5
80000	3903	1026	56.6	1032	58.1	1038	59.5	1043	61.0	1048	62.4	1054	63.9	1059	65.4	1070	68.3	1081	71.3	1092	74.2
85000	4147	1089	67.4	1094	69.0	1100	70.6	1105	72.1	1110	73.7	1115	75.3	1120	76.9	1131	79.9	1141	83.1	1151	86.2
90000	4391	1152	79.7	1157	81.3	1162	83.0	1167	84.7	1172	86.3	1177	87.9	1181	89.6	1191	92.9	1201	96.2	1210	99.5
95000	4635	1215	93.3	1219	95.0	1224	96.8	1229	98.6	1234	100.3	1238	102.0	1243	103.7	1252	107.3	1261	110.7	1270	114.2
100000	4879	1278	108.4	1282	110.2	1287	112.1	1291	114.0	1296	115.8	1300	117.6	1304	119.4	1313	123.1	1322	126.8	1330	130.4
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22000	1073	521	8.5																		
24000	1171	533	9.3	578	11.5																
26000	1269	548	10.2	591	12.5	632	15.0														
28000	1366	563	11.2	604	13.6	644	16.2	682	18.8												
30000	1464	579	12.3	619	14.8	657	17.5	693	20.2	729	23.0										
32000	1561	596	13.5	635	16.1	671	18.9	706	21.7	741	24.6	774	27.6	808	30.8						
34000	1659	614	14.8	651	17.6	687	20.4	721	23.3	754	26.3	786	29.4	817	32.6	849	35.9				
36000	1757	632	16.1	668	19.1	703	22.0	736	25.0	768	28.1	799	31.3	829	34.6	859	37.9	888	41.4		
38000	1854	651	17.4	686	20.6	719	23.7	752	26.9	783	30.1	813	33.3	842	36.7	871	40.1	899	43.6	927	47.3
40000	1952	670	18.9	705	22.2	737	25.5	768	28.8	798	32.1	827	35.5	856	39.0	884	42.5	911	46.1	938	49.8
44000	2147	710	22.2	742	25.7	773	29.4	803	33.0	831	36.6	859	40.2	886	43.9	913	47.6	938	51.4	964	55.3
48000	2342	751	25.9	782	29.7	811	33.5	839	37.5	867	41.6	893	45.5	919	49.5	944	53.4	969	57.3	993	61.4
52000	2537	792	30.1	822	34.2	850	38.2	877	42.4	903	46.7	929	51.1	953	55.4	977	59.6	1001	63.9	1024	68.2
56000	2732	834	34.9	863	39.2	890	43.5	916	47.9	941	52.4	966	57.0	989	61.7	1013	66.4	1035	71.0	1057	75.5
60000	2928	878	40.3	905	44.8	931	49.4	956	54.0	980	58.7	1004	63.5	1027	68.5	1049	73.5	1071	78.5	1092	83.4
65000	3172	933	47.9	958	52.7	983	57.5	1007	62.5	1031	67.6	1053	72.7	1075	77.8	1096	83.0	1117	88.4	1138	93.9
70000	3415	989	56.5	1013	61.6	1037	66.8	1060	72.0	1082	77.4	1104	82.8	1124	88.2	1145	93.7	1165	99.3	1185	105.0
75000	3659	1045	66.2	1068	71.7	1091	77.2	1113	82.7	1134	88.4	1155	94.1	1175	99.8	1195	105.6	1214	111.5	1233	117.4
80000	3903	1103	77.2	1125	83.0	1146	88.8	1167	94.6	1187	100.5	1207	106.6	1227	112.6	1246	118.7	1265	124.9	1283	131.0
85000	4147	1161	89.3	1181	95.5	1202	101.7	1222	107.9	1241	114.1	1260	120.3	1279	126.7	1297	133.0	1316	139.5	1333	146.0
90000	4391	1220	102.8	1239	109.4	1258	115.9	1277	122.4	1296	129.0	1314	135.5	1332	142.1	1350	148.9	1367	155.5	1385	162.5
95000	4635	1279	117.7	1297	124.6	1315	131.5	1334	138.5	1351	145.2	1369	152.2	1386	159.1	1403	166.1	1420	173.1	1437	180.1
100000	4879	1339	134.0	1356	141.3	1373	148.7	1390	155.8	1407	163.2	1424	170.3	1441	177.6	1457	184.8	1474	192.2	1489	199.5
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		11"SP		12"SP		14"SP		16"SP		18"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
38000	1854	955	51.0																		
40000	1952	965	53.6																		
44000	2147	989	59.3	1038	67.3	1086	75.6														
48000	2342	1017	65.6	1063	74.0	1108	82.6	1152	91.6	1196	100.8										
52000	2537	1047	72.5	1091	81.4	1134	90.4	1176	99.6	1217	109.1	1258	118.9								
56000	2732	1079	80.1	1121	89.3	1163	98.8	1203	108.4	1242	118.2	1281	128.2	1357	149.1						
60000	2928	1113	88.4	1154	98.0	1194	107.9	1232	117.9	1270	128.2	1307	138.6	1379	160.0	1450	182.3				
65000	3172	1158	99.2	1197	109.9	1235	120.4	1272	131.0	1308	141.7	1343	152.6	1412	175.0	1478	197.9	1543	221.6	1607	246.3
70000	3415	1204	110.7	1241	122.3	1278	133.8	1313	145.1	1348	156.5	1382	167.9	1447	191.2	1511	215.4	1573	239.8	1633	264.9
75000	3659	1252	123.4	1288	135.6	1323	148.0	1357	160.4	1390	172.6	1423	184.6	1486	208.8	1547	233.8	1606	259.4		
80000	3903	1301	137.3	1335	150.0	1369	163.0	1402	176.4	1434	189.6	1465	202.4	1526							

Wheel Diameter = 49.00 in.
 Outlet Area = 24.81 sq. ft. inside
 Maximum BHP = 104. x (RPM/1000)³
 Tip Speed, fpm = 12.8 x RPM

Class I RPM 907
 Class II RPM 1181
 Class III RPM 1486

Size

4900 DIDW

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	805	237	1.3	257	1.7	275	2.1	292	2.6	309	3.0	324	3.4	340	3.9	369	4.8				
22000	885	252	1.6	271	2.0	289	2.5	305	2.9	321	3.4	336	3.8	350	4.3	378	5.3	405	6.3		
24000	966	268	1.9	286	2.3	303	2.8	319	3.3	333	3.8	348	4.3	362	4.8	388	5.9	414	6.9	438	8.1
26000	1046	284	2.2	302	2.7	318	3.2	333	3.8	347	4.3	361	4.8	374	5.4	399	6.5	424	7.6	447	8.8
28000	1127	301	2.6	317	3.1	333	3.7	347	4.2	361	4.8	374	5.4	387	6.0	411	7.1	435	8.3	457	9.5
30000	1207	318	3.0	333	3.6	348	4.2	362	4.7	375	5.4	388	6.0	400	6.6	424	7.8	446	9.1	468	10.4
32000	1288	335	3.5	350	4.1	364	4.7	377	5.3	390	6.0	402	6.6	414	7.3	437	8.6	459	9.9	480	11.3
36000	1449	369	4.7	383	5.3	396	6.0	409	6.7	421	7.4	432	8.1	443	8.8	465	10.3	485	11.8	505	13.3
40000	1610	405	6.0	417	6.8	429	7.5	441	8.3	452	9.0	463	9.8	474	10.6	494	12.1	513	13.8	532	15.5
44000	1771	441	7.7	452	8.5	463	9.3	473	10.1	484	10.9	494	11.8	504	12.6	524	14.3	542	16.1	560	17.9
48000	1932	477	9.7	487	10.5	497	11.4	507	12.3	517	13.2	527	14.1	536	15.0	555	16.8	572	18.7	589	20.6
52000	2093	513	11.9	523	12.9	532	13.9	541	14.8	550	15.8	560	16.7	569	17.7	586	19.6	603	21.6	619	23.7
56000	2254	550	14.6	559	15.6	567	16.7	576	17.7	585	18.7	593	19.7	602	20.8	618	22.9	634	25.0	650	27.1
60000	2415	587	17.6	595	18.7	603	19.8	611	20.9	619	22.1	627	23.1	635	24.2	651	26.5	666	28.7	681	30.9
65000	2616	633	22.0	641	23.2	648	24.4	656	25.6	663	26.8	670	28.0	678	29.1	692	31.5	707	33.9	721	36.3
70000	2817	679	27.0	686	28.3	693	29.6	700	30.9	707	32.2	714	33.5	721	34.8	735	37.3	748	39.9	762	42.5
75000	3018	726	32.8	733	34.2	739	35.6	746	37.0	752	38.3	759	39.8	765	41.1	778	43.9	791	46.7	803	49.4
80000	3219	773	39.4	779	40.9	785	42.4	791	43.9	797	45.3	803	46.8	809	48.3	821	51.2	833	54.1	845	57.1
85000	3421	819	46.9	825	48.5	831	50.0	837	51.6	842	53.2	848	54.7	854	56.3	865	59.4	877	62.6	888	65.6
90000	3622	866	55.2	872	56.9	877	58.6	883	60.2	888	61.9	893	63.5	899	65.2	910	68.5	920	71.8	931	75.1
95000	3823	913	64.6	919	66.4	924	68.1	929	69.8	934	71.6	939	73.4	944	75.1	954	78.6	964	82.0	974	85.5
100000	4024	960	74.9	965	76.8	970	78.7	975	80.4	980	82.3	985	84.1	990	86.0	999	89.6	1009	93.3	1018	96.9
105000	4225	1007	86.3	1012	88.3	1017	90.3	1021	92.2	1026	94.0	1031	96.0	1035	97.9	1044	101.8	1053	105.6	1063	109.5
110000	4427	1054	98.9	1059	100.9	1063	103.0	1068	105.0	1072	107.0	1077	108.9	1081	111.0	1090	115.1	1098	119.0	1107	123.1
115000	4628	1101	112.6	1106	114.7	1110	116.9	1115	119.0	1119	121.1	1123	123.1	1127	125.2	1135	129.5	1144	133.7	1152	137.8
120000	4829	1149	127.5	1153	129.7	1157	132.0	1161	134.2	1165	136.4	1169	138.5	1173	140.7	1181	145.1	1189	149.6	1197	153.9
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
28000	1127	479	10.8	521	13.4																
30000	1207	489	11.7	529	14.4																
32000	1288	500	12.6	539	15.5	576	18.4														
36000	1449	524	14.7	560	17.8	595	20.9	628	24.2	661	27.6										
40000	1610	549	17.1	584	20.4	616	23.8	648	27.3	679	30.8	708	34.5	737	38.3						
44000	1771	577	19.7	609	23.4	640	27.0	670	30.7	699	34.4	727	38.3	755	42.3	781	46.3	808	50.5		
48000	1932	605	22.5	636	26.5	666	30.5	694	34.4	722	38.4	749	42.5	775	46.7	800	50.9	825	55.3	850	59.7
52000	2093	635	25.5	665	29.9	693	34.3	720	38.6	747	42.9	772	47.1	797	51.5	821	56.0	845	60.6	869	65.1
56000	2254	665	29.3	693	33.7	721	38.3	747	43.0	772	47.6	797	52.2	821	56.8	844	61.4	867	66.2	889	71.0
60000	2415	696	33.2	723	37.9	750	42.7	775	47.6	799	52.7	823	57.6	846	62.5	868	67.4	890	72.4	912	77.4
65000	2616	735	38.8	761	43.8	787	48.9	811	54.1	834	59.4	857	64.8	879	70.3	900	75.6	921	80.8	942	86.1
70000	2817	775	45.1	800	50.3	824	55.7	848	61.2	870	66.8	892	72.5	913	78.3	934	84.1	954	89.9	974	95.7
75000	3018	815	52.1	840	57.7	863	63.4	886	69.2	907	75.1	928	81.0	949	87.0	968	93.2	988	99.5	1007	105.8
80000	3219	857	60.0	880	65.9	903	71.9	924	78.0	945	84.2	965	90.4	985	96.7	1004	103.1	1023	109.7	1041	116.3
85000	3421	899	68.8	921	75.0	942	81.2	963	87.6	984	94.1	1003	100.7	1022	107.2	1041	113.9	1059	120.8	1077	127.6
90000	3622	941	78.4	962	85.0	983	91.5	1003	98.2	1022	105.0	1042	111.8	1060	118.8	1078	125.7	1096	132.8	1113	139.9
95000	3823	984	89.0	1004	96.0	1024	102.9	1043	109.9	1062	116.9	1080	124.0	1099	131.3	1116	138.5	1133	145.8	1150	153.4
100000	4024	1028	100.6	1047	107.9	1065	115.2	1084	122.5	1102	129.9	1120	137.2	1137	144.7	1155	152.4	1171	160.0	1187	167.7
105000	4225	1072	113.3	1090	120.9	1108	128.7	1125	136.3	1143	143.9	1160	151.6	1177	159.4	1193	167.2	1210	175.3	1225	183.2
110000	4427	1116	127.1	1133	135.2	1150	143.1	1167	151.1	1184	159.2	1201	167.1	1217	175.2	1233	183.4	1249	191.5	1264	199.9
115000	4628	1160	142.2	1177	150.4	1193	158.8	1209	167.3	1226	175.5	1242	183.9	1257	192.2	1273	200.7	1288	209.2	1303	217.7
120000	4829	1205	158.3	1221	167.0	1237	175.9	1252	184.4	1268	193.2	1283	201.8	1298	210.5	1313	219.3	1328	228.0	1343	236.9
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		11"SP		12"SP		14"SP		16"SP		18"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
48000	1932	874	64.3																		
52000	2093	891	69.8	937	79.5																
56000	2254	912	76.0	954	85.9	997	96.2	1038	106.9												
60000	2415	933	82.5	975	93.0	1015	103.6	1054	114.5	1093	125.8										
65000	2616	962	91.5	1002	102.4	1040	113.5	1078	124.9	1114	136.6	1150	148.5								
70000	2817	993	101.3	1031	112.8	1068	124.5	1104	136.4	1139	148.6	1174	161.0	1240	186.2	1307	213.1				
75000	3018	1026	111.9	1062	124.1	1098	136.3	1132	148.7	1166	161.3	1199	174.1	1263	200.6	1325	227.7	1387	256.1		
80000	3219	1059	122.9	1094	136.1	1129	149.0	1162	162.0	1194	175.1	1226	188.5	1288	215.9	1348	244.0	1406	272.8	1464	302.8
85000	3421	1094	134.6	1128	148.7	1161	162.6	1193	176.4	1225	190.1	1255	204.0	1315	232.2	1373	261.6	1429	291.2	1484	321.7
90000	3622	1130	147.1	1163	161.8	1195	176.7	1226	191.5	1256	206.1	1286	220.7	1344	249.8	1400	280.0	1454	310.9		
95000	3823	1166	160.7	1198	175.9	1229	191.5	1259	207.2	1289	222.8	1318	238.3	1374	268.6						

Wheel Diameter = 54.25 in.
 Outlet Area = 30.41 sq. ft. inside
 Maximum BHP = 174. x (RPM/1000)³
 Tip Speed, fpm = 14.2 x RPM

Size

5425 DIDW

Class I RPM 819
 Class II RPM 1067
 Class III RPM 1342

Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
26000	854	222	1.8	240	2.3	256	2.9	271	3.4	285	3.9	299	4.5	312	5.1	338	6.3				
28000	919	234	2.1	251	2.6	266	3.2	281	3.8	294	4.4	308	4.9	320	5.5	345	6.8	369	8.1		
30000	985	246	2.4	262	3.0	277	3.6	291	4.2	304	4.8	317	5.4	329	6.1	353	7.3	376	8.7	398	10.1
32000	1051	258	2.7	273	3.3	288	4.0	301	4.6	314	5.3	326	6.0	338	6.6	361	8.0	383	9.4	404	10.8
36000	1182	282	3.5	297	4.2	310	4.9	323	5.6	335	6.3	346	7.1	358	7.9	379	9.3	400	10.8	420	12.4
40000	1313	307	4.5	320	5.3	333	6.0	345	6.8	357	7.6	368	8.4	378	9.2	399	10.9	418	12.5	437	14.2
44000	1445	333	5.7	345	6.5	357	7.3	368	8.1	379	9.0	390	9.8	400	10.7	419	12.5	438	14.4	455	16.2
48000	1576	359	7.0	370	7.9	381	8.8	392	9.7	402	10.6	412	11.5	422	12.5	440	14.4	458	16.3	475	18.4
52000	1707	385	8.6	396	9.6	406	10.5	416	11.5	426	12.4	435	13.4	445	14.4	462	16.5	479	18.5	495	20.7
56000	1838	412	10.4	421	11.4	431	12.5	440	13.5	450	14.5	459	15.6	468	16.6	485	18.8	501	21.0	517	23.2
60000	1970	438	12.5	447	13.6	456	14.7	465	15.8	474	16.9	483	18.0	491	19.1	508	21.4	523	23.7	538	26.1
65000	2134	472	15.4	480	16.6	489	17.8	497	19.0	505	20.2	513	21.4	521	22.6	537	25.0	552	27.5	566	30.0
70000	2298	506	18.8	514	20.1	521	21.5	529	22.7	537	24.0	544	25.3	552	26.6	567	29.2	581	31.8	595	34.5
75000	2462	540	22.8	547	24.2	554	25.5	561	26.9	569	28.3	576	29.7	583	31.1	597	33.8	610	36.6	624	39.4
80000	2626	574	27.2	581	28.7	587	30.2	594	31.7	601	33.1	608	34.6	614	36.1	627	39.0	640	42.0	653	44.9
85000	2791	608	32.3	615	33.8	621	35.4	627	37.0	634	38.6	640	40.1	646	41.7	659	44.8	671	47.9	683	51.0
90000	2955	643	37.9	648	39.5	655	41.2	660	42.9	666	44.5	672	46.2	678	47.8	690	51.1	702	54.5	714	57.8
95000	3119	677	44.2	683	45.9	688	47.7	694	49.4	700	51.1	705	52.9	711	54.7	722	58.2	733	61.6	744	65.1
100000	3283	711	51.1	717	53.0	722	54.8	728	56.7	733	58.5	738	60.3	744	62.2	754	65.8	765	69.5	775	73.2
105000	3447	746	58.8	751	60.7	756	62.6	761	64.6	766	66.5	771	68.4	777	70.4	787	74.2	797	78.1	807	81.9
110000	3611	780	67.2	785	69.2	790	71.2	795	73.2	800	75.3	805	77.3	810	79.3	819	83.4	829	87.4	839	91.4
115000	3775	815	76.3	820	78.5	824	80.6	829	82.7	834	84.8	838	87.0	843	89.0	852	93.3	861	97.5	871	101.7
120000	3940	849	86.3	854	88.6	859	90.8	863	93.0	868	95.2	872	97.4	876	99.6	885	104.0	894	108.5	903	112.8
130000	4268	919	108.9	923	111.4	927	113.8	931	116.2	935	118.5	940	120.9	944	123.3	952	128.1	960	132.8	968	137.7
140000	4596	988	135.3	992	137.8	996	140.5	1000	143.1	1004	145.6	1008	148.1	1011	150.6	1019	155.9	1026	160.9	1034	166.0
150000	4925	1058	165.5	1061	168.3	1065	171.1	1069	173.9	1072	176.7	1076	179.3	1079	182.0	1086	187.5	1094	193.2	1100	198.5
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
36000	1182	439	14.0	475	17.3																
40000	1313	455	15.9	489	19.4	523	23.0	555	26.9												
44000	1445	472	18.0	505	21.7	537	25.6	567	29.6	596	33.8										
48000	1576	491	20.4	523	24.3	552	28.4	581	32.6	609	36.9	636	41.4	663	46.1						
52000	1707	511	22.9	541	27.2	570	31.5	597	35.9	624	40.4	650	45.1	675	49.9	700	54				
56000	1838	532	25.6	561	30.3	588	34.8	614	39.5	640	44.2	665	49.1	689	54.0	713	59.1	736	64.3	759	69.7
60000	1970	553	28.5	581	33.5	607	38.5	633	43.4	657	48.4	681	53.4	704	58.6	727	63.9	750	69.3	772	74.7
65000	2134	580	32.6	607	37.8	632	43.3	656	48.7	680	54.0	703	59.3	725	64.7	747	70.3	768	75.9	789	81.6
70000	2298	608	37.2	634	42.7	658	48.4	682	54.3	704	60.1	726	65.8	747	71.5	768	77.3	789	83.2	809	89.2
75000	2462	637	42.3	661	48.1	685	54.1	708	60.2	729	66.5	750	72.7	771	78.9	791	85.0	811	91.1	830	97.3
80000	2626	666	48.0	689	54.0	712	60.3	734	66.7	755	73.3	776	80.0	795	86.7	815	93.2	834	99.6	852	106.2
85000	2791	695	54.2	718	60.6	740	67.2	761	73.9	782	80.6	802	87.6	821	94.7	839	101.7	858	108.7	876	115.7
90000	2955	725	61.1	747	67.8	769	74.7	789	81.6	809	88.7	828	95.9	847	103.3	865	110.7	882	118.2	900	125.7
95000	3119	755	68.6	777	75.6	797	82.7	817	90.0	836	97.4	855	104.9	873	112.5	891	120.2	908	128.0	925	136.0
100000	3283	786	76.8	806	84.2	826	91.6	846	99.2	864	106.8	883	114.6	900	122.5	918	130.5	934	138.5	951	146.8
105000	3447	817	85.8	837	93.5	856	101.2	875	109.1	893	117.1	911	125.1	928	133.2	944	141.5	961	149.9	977	158.3
110000	3611	848	95.4	867	103.5	886	111.5	904	119.7	922	127.9	939	136.3	956	144.8	972	153.3	988	162.0	1004	170.7
115000	3775	880	105.9	898	114.3	916	122.7	934	131.2	951	139.7	968	148.3	984	157.1	1000	166.0	1015	174.8	1031	183.9
120000	3940	912	117.3	929	126.0	947	134.7	964	143.4	980	152.3	997	161.3	1013	170.3	1028	179.4	1043	188.8	1058	197.9
130000	4268	976	142.3	992	151.8	1009	161.4	1024	170.7	1040	180.2	1056	189.8	1071	199.3	1086	209.0	1100	218.9	1114	228.7
140000	4596	1042	171.3	1057	181.4	1071	191.5	1086	201.9	1101	211.8	1116	222.1	1130	232.3	1144	242.5	1158	253.0	1172	263.3
150000	4925	1107	203.9	1121	214.9	1135	225.9	1149	236.6	1163	247.7	1177	258.3	1190	269.4	1204	280.1	1217	291.2	1230	302.0
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		11"SP		12"SP		14"SP		16"SP		18"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
60000	1970	793	80.3																		
65000	2134	810	87.5	850	99.3	890	111.8														
70000	2298	828	95.2	867	107.7	905	120.4	941	133.6												
75000	2462	849	103.6	886	116.5	922	129.8	957	143.3	991	157.2	1026	171.6								
80000	2626	871	112.8	906	126.1	941	139.8	975	153.9	1008	168.1	1040	182.8	1105	213.6						
85000	2791	893	122.6	928	136.5	961	150.7	994	165.2	1026	180.0	1057	195.2	1118	226.2						
90000	2955	917	133.0	950	147.7	983	162.3	1014	177.4	1045	192.7	1076	208.4	1134	240.1	1192	273.4				
95000	3119	942	144.0	974	159.5	1005	174.8	1036	190.3	1066	206.2	1095	222.3	1152	255.0	1207	289.0	1261	324.2		
100000	3283	967	155.3	998	171.7	1029	187.9	1058	204.1	1087	220.5	1116	237.1	1171	270.8	1224	305.7	1277	341.7	1328	378.5
105000	3447	993	166.9	1023	184.3	1053	201.6	1082	218.6	1110	235.6	1138	252.8	1191	287.4	1243	323.4	1294	360.3		
110000	3611	1019	179.5	1049	197.5	1078	215.7	1106	233.7	1133	251.5	1160									

Wheel Diameter = 60.00 in.
 Outlet Area = 37.24 sq. ft. inside
 Maximum BHP = 287. x (RPM/1000)³
 Tip Speed, fpm = 15.7 x RPM

Size

6000 DIDW

Design 5010 Centrifugal Airfoil Fans

Class I RPM 741
 Class II RPM 965
 Class III RPM 1215

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
30000	805	194	2.0	210	2.6	225	3.2	239	3.8	252	4.5	265	5.1	278	5.8	302	7.2				
32000	859	202	2.2	218	2.9	232	3.5	246	4.2	259	4.9	271	5.5	283	6.2	306	7.7	329	9.2		
36000	966	219	2.8	234	3.5	247	4.2	260	5.0	272	5.7	284	6.5	295	7.2	317	8.8	338	10.4	358	12.1
40000	1074	237	3.5	251	4.3	264	5.0	276	5.9	287	6.7	298	7.5	309	8.4	329	10.0	349	11.7	368	13.5
44000	1181	255	4.3	268	5.1	280	6.0	292	6.9	303	7.7	313	8.7	323	9.6	343	11.4	361	13.2	379	15.1
48000	1288	273	5.3	286	6.2	297	7.1	308	8.0	319	9.0	329	9.9	338	10.9	357	12.9	375	14.9	392	16.9
52000	1396	292	6.4	304	7.3	315	8.3	325	9.3	335	10.3	345	11.3	354	12.4	372	14.5	389	16.7	405	18.9
56000	1503	311	7.6	322	8.7	332	9.7	342	10.8	352	11.8	361	12.9	370	14.0	387	16.3	404	18.6	419	21.0
60000	1610	331	9.1	341	10.2	350	11.3	360	12.4	369	13.5	378	14.7	387	15.8	403	18.2	419	20.7	434	23.2
65000	1745	355	11.1	364	12.3	373	13.5	382	14.7	391	15.9	400	17.1	408	18.4	424	20.9	439	23.5	453	26.2
70000	1879	380	13.5	388	14.8	397	16.0	405	17.3	413	18.6	421	19.9	429	21.2	445	23.9	459	26.7	473	29.5
75000	2013	404	16.2	412	17.5	420	18.9	428	20.3	436	21.7	444	23.1	451	24.5	466	27.3	480	30.2	493	33.1
80000	2147	429	19.2	437	20.7	444	22.1	452	23.6	459	25.1	466	26.6	473	28.0	487	31.0	501	34.1	514	37.2
85000	2281	454	22.6	461	24.2	468	25.8	475	27.3	482	28.9	489	30.5	496	32.0	509	35.2	523	38.4	535	41.6
90000	2416	479	26.4	486	28.1	493	29.8	499	31.4	506	33.1	512	34.7	519	36.4	532	39.7	544	43.0	556	46.4
95000	2550	505	30.7	511	32.4	517	34.2	523	36.0	530	37.7	536	39.4	542	41.2	554	44.7	566	48.2	578	51.7
100000	2684	530	35.4	536	37.2	542	39.1	548	40.9	554	42.8	560	44.6	565	46.4	577	50.1	589	53.8	600	57.5
110000	2952	580	46.3	586	48.3	591	50.3	597	52.3	602	54.4	608	56.4	613	58.4	624	62.4	634	66.5	645	70.5
120000	3221	631	59.2	636	61.4	641	63.6	646	65.9	651	68.0	656	70.2	661	72.5	671	76.9	681	81.2	690	85.7
130000	3489	682	74.4	687	76.9	692	79.2	696	81.6	701	84.1	705	86.4	710	88.8	719	93.6	728	98.3	737	103.1
140000	3758	733	92.1	738	94.7	742	97.3	746	99.8	750	102.4	755	105.1	759	107.6	767	112.7	776	117.8	784	123.0
150000	4026	784	112.5	789	115.3	793	118.1	797	120.7	800	123.5	804	126.3	808	129.1	816	134.5	824	140.1	832	145.5
160000	4294	836	135.7	840	138.6	843	141.7	847	144.6	851	147.4	854	150.4	858	153.3	866	159.2	873	165.0	880	171.0
170000	4563	887	161.9	891	165.1	894	168.3	898	171.5	901	174.5	905	177.5	908	180.6	915	187.0	922	193.1	929	199.3
180000	4831	938	191.4	942	194.7	945	198.1	949	201.5	952	204.8	955	208.0	958	211.2	965	217.8	971	224.5	978	230.9
190000	5099	990	224.4	993	227.8	996	231.3	1000	234.9	1003	238.5	1006	241.9	1009	245.3	1015	252.1	1021	259.2	1027	266.1
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
40000	1074	386	15.4																		
44000	1181	396	17.1	430	21.1																
48000	1288	408	18.9	440	23.2	470	27.6														
52000	1396	421	21.0	451	25.5	480	30.1	508	34.9												
56000	1503	435	23.3	464	27.9	491	32.8	518	37.8	544	42.9	570	48.3								
60000	1610	449	25.7	477	30.6	503	35.7	529	40.9	554	46.3	578	51.8	602	57.5						
65000	1745	467	28.9	494	34.3	520	39.6	544	45.1	568	50.7	591	56.5	614	62.4	636	68.4	658	74.7		
70000	1879	487	32.3	512	38.2	537	44.0	560	49.7	583	55.6	605	61.6	627	67.8	648	74.1	669	80.5	690	87.1
75000	2013	506	36.1	531	42.3	555	48.6	577	54.7	599	60.9	621	67.2	642	73.6	662	80.1	682	86.7	701	93.5
80000	2147	527	40.3	551	46.7	574	53.5	595	60.1	617	66.6	637	73.2	657	79.8	677	86.6	696	93.5	715	100.6
85000	2281	547	44.9	570	51.6	593	58.6	614	65.6	634	72.7	654	79.6	674	86.6	693	93.6	711	100.8	730	108.2
90000	2416	568	49.9	591	56.9	612	64.1	633	71.5	653	79.0	672	86.5	691	93.8	709	101.2	727	108.6	745	116.2
95000	2550	589	55.3	612	62.7	632	70.1	652	77.7	672	85.6	690	93.5	709	101.4	726	109.2	744	117.0	761	124.8
100000	2684	611	61.2	632	68.9	653	76.6	672	84.5	691	92.6	709	100.9	727	109.3	744	117.6	761	125.8	778	133.9
110000	2952	655	74.6	675	82.8	695	91.2	713	99.7	731	108.3	748	117.1	765	126.2	782	135.2	798	144.4	813	153.5
120000	3221	700	90.0	719	98.9	737	107.9	755	117.0	772	126.3	788	135.6	805	145.0	820	154.7	836	164.6	851	174.5
130000	3489	746	107.9	764	117.4	781	127.0	798	136.7	814	146.5	830	156.4	845	166.5	860	176.8	875	187.0	889	197.4
140000	3758	792	128.1	809	138.3	825	148.6	841	158.9	857	169.3	872	179.8	887	190.5	901	201.4	915	212.1	929	223.1
150000	4026	840	151.0	855	161.9	870	172.8	886	183.8	901	194.9	915	205.9	929	217.2	943	228.7	957	240.0	970	251.7
160000	4294	887	176.7	902	188.5	916	200.2	931	211.7	945	223.4	959	235.2	972	246.9	986	258.8	999	270.9	1012	283.0
170000	4563	936	205.7	949	217.9	963	230.3	977	242.8	990	255.0	1003	267.3	1016	279.9	1029	292.2	1042	305.0	1054	317.5
180000	4831	984	237.6	997	250.6	1010	264.0	1023	276.8	1036	289.9	1048	302.9	1061	316.0	1073	329.1	1085	342.2	1097	355.5
190000	5099	1033	272.9	1046	287.0	1058	300.6	1070	314.5	1082	328.1	1094	341.9	1106	355.6	1117	369.4	1129	383.1	1141	397.1
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		11"SP		12"SP		14"SP		16"SP		18"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
75000	2013	721	100.4	759	114.7																
80000	2147	734	107.8	770	122.3	805	137.5														
85000	2281	747	115.5	782	130.6	816	146.1	850	162.2												
90000	2416	762	123.7	796	139.5	829	155.4	861	171.8	893	188.8										
95000	2550	778	132.6	811	148.8	843	165.3	874	182.2	904	199.5	934	217.2								
100000	2684	794	142.0	826	158.7	857	175.8	887	193.1	917	210.9	946	228.9	1002	266.3						
110000	2952	829	162.6	859	180.4	888	198.4	917	216.7	945	235.5	972	254.7	1025	293.4	1077	334.2				
120000	3221	865	184.4	894	204.2	922	223.6	949	243.0	976	262.7	1002	282.8	1052	323.9	1101	366.0	1148	409.2	1195	454.2
130000	3489	904	208.1	931	229.7	958	251.1	984	272.3	1009	293.3	1034	314.1	1082	357.0	1128	401.1	1174	446.3		
140000	3758	943	234.2	969	256.8	995	280.0	1020	303.1	1044	325.7	1068	348.3	1114	393.5	1158	439.6	1202	486.5		
150000	4026	983	263.3	1009																	

Wheel Diameter = 66.00 in.
 Outlet Area = 45.06 sq. ft. inside
 Maximum BHP = 463. x (RPM/1000)³
 Tip Speed, fpm = 17.3 x RPM

Size

6600 DIDW

Design 5010 Centrifugal Airfoil Fans

Class I RPM 674
 Class II RPM 878
 Class III RPM 1104

Volume O.Vel		1/4"SP		3/8"SP		1/2"SP		5/8"SP		3/4"SP		7/8"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
40000	887	188	2.9	202	3.7	215	4.5	227	5.3	238	6.1	249	7.0	260	7.9	281	9.6	301	11.5		
44000	976	201	3.5	214	4.3	226	5.2	238	6.1	249	7.0	259	8.0	270	8.9	289	10.8	308	12.7	326	14.8
48000	1065	214	4.2	227	5.1	238	6.0	249	7.0	260	8.0	270	9.0	280	10.0	298	12.0	316	14.1	334	16.2
52000	1153	228	5.0	240	5.9	251	6.9	261	8.0	271	9.0	281	10.1	290	11.2	308	13.4	326	15.5	342	17.8
56000	1242	241	5.9	253	6.9	264	8.0	274	9.1	283	10.2	293	11.3	302	12.5	319	14.8	335	17.1	351	19.5
60000	1331	255	6.9	266	8.0	276	9.1	286	10.3	296	11.5	305	12.7	313	13.9	330	16.4	346	18.9	361	21.4
65000	1442	273	8.3	283	9.5	293	10.8	302	12.0	311	13.2	320	14.5	328	15.8	344	18.5	359	21.2	374	23.9
70000	1553	291	10.0	301	11.3	310	12.6	319	13.9	327	15.2	335	16.6	344	17.9	359	20.8	373	23.7	387	26.6
75000	1664	309	11.9	318	13.3	327	14.7	335	16.1	343	17.5	351	18.9	359	20.3	374	23.3	388	26.3	402	29.4
80000	1774	328	14.0	336	15.5	344	17.0	352	18.5	360	20.0	368	21.4	375	23.0	389	26.1	403	29.2	416	32.5
85000	1885	346	16.4	354	18.0	362	19.6	369	21.1	377	22.7	384	24.3	391	25.9	405	29.1	418	32.5	431	35.8
90000	1996	365	19.1	372	20.8	379	22.4	387	24.1	394	25.7	401	27.4	408	29.1	421	32.5	434	36.0	446	39.5
95000	2107	383	22.1	390	23.8	397	25.6	404	27.3	411	29.1	418	30.8	424	32.6	437	36.1	450	39.8	462	43.5
100000	2218	402	25.3	409	27.2	415	29.0	422	30.9	428	32.7	435	34.6	441	36.4	454	40.1	466	43.9	477	47.7
110000	2440	440	32.9	446	34.9	452	36.9	458	39.0	464	41.0	470	43.0	476	45.1	487	49.1	498	53.2	509	57.3
120000	2662	478	41.8	483	44.0	489	46.3	494	48.5	500	50.7	505	52.9	510	55.1	521	59.5	532	63.9	542	68.4
130000	2884	516	52.4	521	54.7	526	57.2	531	59.5	536	62.0	541	64.3	546	66.7	556	71.5	566	76.3	576	81.1
140000	3105	554	64.6	559	67.1	563	69.7	568	72.3	573	74.9	577	77.5	582	80.0	591	85.2	601	90.3	610	95.4
150000	3327	592	78.6	597	81.4	601	84.1	605	86.9	610	89.6	614	92.4	619	95.2	627	100.6	636	106.2	644	111.7
160000	3549	631	94.5	635	97.6	639	100.4	643	103.4	647	106.4	651	109.3	655	112.2	663	118.1	671	124.0	679	129.8
170000	3771	669	112.6	673	115.8	677	118.9	681	122.0	684	125.1	688	128.3	692	131.4	700	137.6	707	143.8	715	150.1
180000	3993	707	132.8	711	136.2	715	139.6	718	142.8	722	146.1	726	149.4	729	152.8	736	159.3	744	166.1	751	172.5
190000	4214	746	155.4	749	159.0	753	162.6	756	166.0	760	169.4	763	172.9	767	176.4	773	183.4	780	190.3	787	197.4
200000	4436	784	180.5	788	184.2	791	188.0	795	191.7	798	195.2	801	198.8	804	202.5	811	210.0	817	217.2	824	224.6
210000	4658	823	208.2	826	212.0	829	216.0	833	219.9	836	223.7	839	227.4	842	231.2	848	239.1	854	246.7	860	254.3
220000	4880	862	238.6	865	242.6	868	246.7	871	250.8	874	254.9	877	258.8	880	262.7	885	270.8	891	279.0	897	286.8
Volume O.Vel		2"SP		2-1/2"SP		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
52000	1153	358	20.1	389	25.0																
56000	1242	366	21.9	396	26.9	424	32.2														
60000	1331	376	23.9	404	29.1	431	34.6	457	40.3												
65000	1442	388	26.6	415	32.0	441	37.8	466	43.7	490	49.9										
70000	1553	401	29.5	427	35.3	452	41.3	476	47.4	499	53.8	521	60.4								
75000	1664	415	32.6	440	38.8	463	45.0	486	51.5	509	58.0	530	64.8	551	71.8	572	79.1				
80000	1774	429	35.9	453	42.5	476	49.1	498	55.8	519	62.7	540	69.7	561	76.9	580	84.3	600	91.9		
85000	1885	443	39.3	467	46.4	489	53.5	510	60.4	531	67.6	551	74.9	571	82.3	590	90.0	609	97.8	627	105.7
90000	1996	458	43.1	481	50.5	502	58.1	523	65.4	543	72.9	563	80.5	582	88.2	600	96.1	618	104.0	636	112.1
95000	2107	473	47.2	495	54.9	516	62.8	536	70.7	556	78.5	575	86.4	593	94.4	611	102.5	629	110.7	646	119.1
100000	2218	489	51.6	510	59.6	530	67.8	550	76.2	569	84.5	587	92.7	605	100.9	623	109.3	640	117.8	657	126.4
110000	2440	520	61.5	540	70.0	560	78.8	579	87.8	597	97.0	614	106.2	631	115.2	648	124.2	664	133.3	680	142.3
120000	2662	552	72.9	572	82.0	590	91.4	608	100.9	625	110.7	642	120.7	658	130.7	674	140.5	689	150.3	705	160.2
130000	2884	585	85.9	604	95.6	621	105.5	639	115.7	655	125.9	671	136.4	687	147.1	702	158.1	717	168.9	731	179.5
140000	3105	619	100.6	636	110.9	653	121.4	670	132.2	686	143.1	701	154.1	716	165.3	731	176.8	745	188.3	759	200.0
150000	3327	653	117.1	669	128.1	686	139.3	702	150.6	717	162.0	732	173.7	746	185.5	760	197.4	774	209.4	787	221.8
160000	3549	687	135.7	703	147.4	719	159.2	734	171.0	749	183.0	763	195.3	777	207.7	790	220.2	803	232.7	817	245.6
170000	3771	722	156.3	737	168.7	752	181.2	767	193.7	781	206.3	795	219.0	808	232.0	821	245.2	834	258.2	847	271.6
180000	3993	758	179.2	772	192.2	786	205.3	800	218.5	814	231.8	827	245.1	840	258.6	853	272.4	865	286.1	877	300.0
190000	4214	794	204.2	807	218.1	821	232.0	834	245.8	847	259.6	860	273.6	872	287.7	884	301.8	897	316.5	908	330.7
200000	4436	830	231.9	843	246.6	855	260.9	868	275.5	881	290.2	893	304.6	905	319.3	917	334.1	928	349.0	940	364.2
210000	4658	866	262.2	878	277.3	891	292.6	903	308.0	915	323.0	926	338.5	938	353.6	950	369.0	961	384.5	972	400.1
220000	4880	903	294.9	915	310.9	926	327.1	938	342.8	949	359.0	960	374.7	972	390.8	983	406.7	994	422.9	1004	438.9
Volume O.Vel		7"SP		8"SP		9"SP		10"SP		11"SP		12"SP		14"SP		16"SP		18"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
90000	1996	654	120.5	689	137.8																
95000	2107	663	127.6	697	145.2	730	163.6														
100000	2218	673	135.2	706	153.2	737	171.8	769	191.3												
110000	2440	695	151.6	726	170.7	756	190.2	785	210.2	813	230.7	842	251.9								
120000	2662	719	169.9	749	190.0	777	210.4	804	231.3	831	252.7	858	274.6	910	319.7						
130000	2884	745	190.1	773	211.1	800	232.6	826	254.5	852	276.9	877	299.6	926	346.6	974	394.9				
140000	3105	772	211.8	799	234.5	825	257.1	850	280.0	875	303.4	899	327.3	946	375.5	991	425.8	1036	477.7		
150000	3327	800	234.2	826	259.3	851	283.8	875	308.0	899	332.2	922	356.7	967	407.4	1010	459.1	1053	512.4	1094	567.4
160000	3549	829	258.4	854	285.0	878	311.5	901	337.5	924	363.1	946	388.9	990	441.8	1032	495.4	1072	550.4		
170000	3771	859	285.0	883	312.4	906	340.5	929	368.5	951	396.1	972									

Wheel Diameter = 73.00 in.
 Outlet Area = 55.14 sq. ft. inside
 Maximum BHP = 763. x (RPM/1000)³
 Tip Speed, fpm = 19.1 x RPM

Size

7300 DIDW

Design 5010 Centrifugal Airfoil Fans

Class I RPM 610
 Class II RPM 794

Volume O.Vel		1/4"SP		1/2"SP		3/4"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP		2"SP		2-1/4"SP		2-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
44000	798	158	2.9	184	4.7	206	6.5	227	8.5	248	10.6										
48000	870	167	3.4	192	5.3	214	7.3	234	9.4	253	11.6	271	13.8								
52000	943	177	4.0	201	6.0	221	8.2	241	10.4	259	12.6	276	15.0	293	17.5						
56000	1015	187	4.6	209	6.8	229	9.1	248	11.4	265	13.8	282	16.3	298	18.9	313	21.5				
60000	1088	197	5.3	218	7.6	238	10.1	255	12.6	272	15.1	288	17.7	303	20.3	318	23.1	333	25.9		
65000	1179	209	6.4	230	8.8	248	11.4	265	14.2	281	16.8	297	19.5	312	22.3	326	25.2	340	28.1	353	31.2
70000	1269	222	7.5	242	10.2	260	12.9	276	15.8	291	18.7	306	21.6	320	24.5	334	27.5	347	30.6	360	33.8
75000	1360	235	8.9	254	11.7	271	14.6	287	17.6	302	20.7	316	23.8	329	26.9	342	30.0	355	33.2	368	36.5
80000	1451	248	10.4	266	13.3	283	16.4	298	19.5	312	22.8	326	26.2	339	29.5	352	32.8	364	36.1	376	39.5
85000	1541	262	12.0	278	15.2	294	18.4	309	21.7	323	25.1	336	28.6	349	32.2	361	35.7	373	39.2	385	42.7
90000	1632	275	13.9	291	17.2	306	20.5	321	24.0	334	27.6	347	31.2	359	35.0	371	38.8	383	42.5	394	46.2
95000	1722	289	15.9	304	19.4	318	22.9	332	26.6	345	30.3	358	34.1	370	38.0	382	42.0	393	45.9	404	49.8
100000	1813	302	18.2	317	21.9	331	25.5	344	29.3	357	33.2	369	37.1	381	41.1	392	45.3	403	49.5	414	53.7
105000	1904	316	20.6	330	24.5	343	28.4	356	32.3	369	36.3	380	40.4	392	44.6	403	48.8	414	53.2	424	57.6
110000	1994	330	23.3	343	27.4	356	31.4	368	35.5	380	39.7	392	43.9	403	48.3	414	52.7	424	57.1	434	61.7
115000	2085	343	26.3	356	30.5	368	34.7	381	39.0	392	43.3	404	47.7	415	52.2	426	56.7	435	61.3	445	66.1
120000	2176	357	29.4	369	33.9	381	38.3	393	42.7	404	47.2	415	51.7	426	56.3	436	61.0	446	65.8	456	70.6
130000	2357	385	36.6	396	41.4	407	46.2	418	50.9	429	55.7	439	60.6	450	65.5	459	70.5	469	75.6	478	80.8
140000	2538	413	44.8	423	50.0	434	55.2	444	60.3	454	65.5	464	70.6	474	75.9	483	81.1	492	86.5	501	92.0
150000	2720	441	54.4	451	59.9	460	65.4	470	71.0	479	76.5	489	82.0	498	87.5	507	93.1	516	98.7	525	104.5
160000	2901	469	65.2	478	71.1	487	77.0	496	82.8	505	88.7	514	94.6	523	100.5	531	106.4	540	112.3	548	118.4
170000	3082	497	77.4	506	83.6	514	89.8	523	96.1	531	102.4	540	108.6	548	114.8	556	121.1	564	127.3	572	133.6
180000	3264	526	91.0	534	97.6	542	104.2	550	111.0	558	117.5	566	124.1	574	130.8	581	137.2	589	143.9	597	150.5
190000	3445	554	106.2	562	113.2	569	120.3	577	127.2	584	134.2	592	141.2	599	148.1	607	155.1	614	162.0	621	169.0
200000	3626	582	123.1	590	130.4	597	137.8	604	145.1	611	152.6	618	159.8	625	167.2	632	174.4	640	181.8	647	189.1
210000	3808	611	141.7	618	149.4	624	157.1	631	164.9	638	172.6	645	180.3	652	188.0	659	195.6	665	203.3	672	211.0
220000	3989	639	162.1	646	170.3	652	178.2	659	186.5	665	194.4	672	202.7	678	210.5	685	218.7	691	226.6	698	234.7
230000	4170	667	184.4	674	193.0	680	201.3	686	209.9	693	218.2	699	226.7	705	235.1	711	243.4	717	252.1	723	260.2
240000	4352	696	208.7	702	217.7	708	226.4	714	235.2	720	244.1	726	252.7	732	261.7	738	270.3	744	279.1	750	288.0
Volume O.Vel		3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP		7"SP		7-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
70000	1269	385	40.3																		
75000	1360	392	43.3	415	50.4																
80000	1451	399	46.5	422	53.8	444	61.4														
85000	1541	407	50.0	429	57.5	450	65.3	471	73.3												
90000	1632	416	53.7	437	61.5	457	69.5	477	77.8	497	86.3										
95000	1722	425	57.7	445	65.7	465	73.9	484	82.5	503	91.2	521	100.1	540	109.3						
100000	1813	434	61.9	454	70.1	473	78.7	492	87.5	510	96.4	528	105.5	545	114.8	563	124.5				
105000	1904	444	66.4	463	74.9	482	83.7	500	92.7	518	102.0	535	111.3	552	120.8	568	130.5	585	140.6		
110000	1994	454	70.9	473	79.9	491	89.0	509	98.3	526	107.7	543	117.4	559	127.2	575	137.0	591	147.2	607	157.8
115000	2085	464	75.7	483	85.2	500	94.7	517	104.1	534	113.8	551	123.7	567	133.9	582	144.0	598	154.3	613	165.0
120000	2176	475	80.6	493	90.7	510	100.5	527	110.3	543	120.2	559	130.4	575	140.7	590	151.3	605	161.8	620	172.6
130000	2357	496	91.2	513	102.0	530	112.9	546	123.6	562	134.2	577	144.8	592	155.6	607	166.6	621	177.9	635	189.1
140000	2538	518	103.0	535	114.3	551	125.9	566	137.6	581	149.1	596	160.6	610	172.0	624	183.6	638	195.1	652	206.9
150000	2720	541	116.1	557	127.9	572	140.0	587	152.4	602	165.0	616	177.5	630	189.9	643	201.9	656	214.1	670	226.6
160000	2901	564	130.6	580	143.0	594	155.6	609	168.5	623	181.7	636	195.2	650	208.4	663	221.4	676	234.6	688	247.6
170000	3082	588	146.4	603	159.5	617	172.7	631	186.1	644	199.8	658	213.8	671	227.9	683	241.9	696	256.2	708	269.9
180000	3264	612	163.9	626	177.6	640	191.4	653	205.3	667	219.5	679	234.0	692	248.6	704	263.4	716	278.6	728	293.4
190000	3445	636	183.0	650	197.2	663	211.7	676	226.3	689	240.9	702	255.9	714	271.2	726	286.3	737	302.0	749	317.8
200000	3626	660	203.7	674	218.5	687	233.5	700	248.8	712	264.2	724	279.6	736	295.4	748	311.1	759	327.1	770	343.6
210000	3808	685	226.4	698	241.8	711	257.3	723	273.0	735	289.1	747	305.2	759	321.4	770	338.0	781	354.3	792	371.2
220000	3989	710	250.7	723	266.7	735	283.0	747	299.3	759	315.7	770	332.6	782	349.4	793	366.4				
230000	4170	736	277.1	748	293.9	760	310.5	771	327.5	783	344.7	794	361.8								
240000	4352	761	305.4	773	322.7	784	340.3														
Volume O.Vel		8"SP		8-1/2"SP		9"SP		9-1/2"SP		10"SP		10-1/2"SP		11"SP		11-1/2"SP		12"SP		13"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
110000	1994	623	168.5																		
115000	2085	628	175.8	643	186.8																
120000	2176	635	183.7	649	194.7	664	206.2	678	217.9												
130000	2357	649	200.5	663	212.3	677	223.8	690	235.9	703	247.9	717	260.3	730	272.8						
140000	2538	665	219.1	678	231.0	692	243.4	704	255.6	717	268.2	730	280.8	742	293.8	755	306.6	767	320.1	792	347.1
150000	2720	682	238.8	695	251.5	708	264.3	720	277.1	732	290.2	744	303.3	756	316.6	768	330.0	780	343.4		
160000	2901	701	260.5	713	273.8	725	286.8	737	300.4	749	313.7	761	327.7	772	341.1	783	355.4				
170000	3082	720	283.7	732	297.6	743	311.2	755	325.3	766	339.1	777	353.4	789	367.5						
180																					

Wheel Diameter = 80.75 in.
 Outlet Area = 67.46 sq. ft. inside
 Maximum BHP = 1264 x (RPM/1000)³
 Tip Speed, fpm = 21.1 x RPM

Size

8075 DIDW

Class I RPM 551
 Class II RPM 717

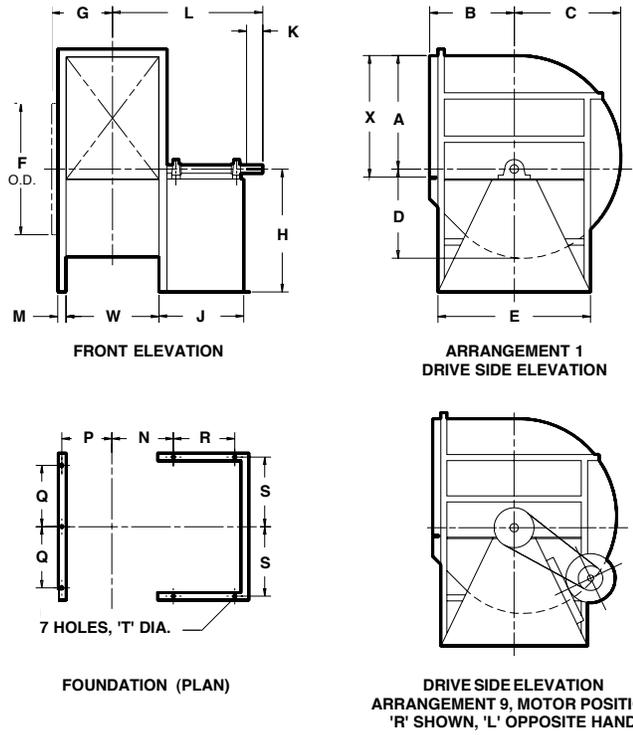
Design 5010 Centrifugal Airfoil Fans

Volume O.Vel		1/4"SP		1/2"SP		3/4"SP		1"SP		1-1/4"SP		1-1/2"SP		1-3/4"SP		2"SP		2-1/4"SP		2-1/2"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
56000	830	147	3.8	169	6.1	189	8.4	208	10.9	226	13.4										
60000	889	154	4.3	176	6.7	195	9.2	213	11.8	230	14.5	246	17.3								
65000	963	162	5.1	184	7.6	202	10.3	219	13.0	235	15.9	251	18.8	266	21.9						
70000	1037	171	5.9	192	8.6	210	11.5	226	14.4	242	17.4	256	20.4	271	23.6	285	26.9				
75000	1111	181	6.9	200	9.7	217	12.8	233	15.9	248	19.0	262	22.2	276	25.5	289	28.9	302	32.4	315	36.1
80000	1185	190	7.9	209	10.9	225	14.1	241	17.5	255	20.8	269	24.1	282	27.5	295	31.1	307	34.7	320	38.4
85000	1260	200	9.1	217	12.3	234	15.6	248	19.1	262	22.7	276	26.2	289	29.7	301	33.4	313	37.1	325	41.0
90000	1334	209	10.4	226	13.7	242	17.2	256	20.8	270	24.6	283	28.4	295	32.1	307	35.9	319	39.7	330	43.7
95000	1408	219	11.8	235	15.3	250	19.0	265	22.7	278	26.7	290	30.7	302	34.6	314	38.5	325	42.5	336	46.6
100000	1482	229	13.4	244	17.1	259	20.9	273	24.8	286	28.8	298	33.0	310	37.2	321	41.3	332	45.5	343	49.7
105000	1556	238	15.1	254	19.0	268	22.9	281	27.0	294	31.2	306	35.5	317	40.0	328	44.3	339	48.6	349	53.0
110000	1630	248	16.9	263	21.0	277	25.1	290	29.3	302	33.7	314	38.1	325	42.8	335	47.4	346	51.9	356	56.4
115000	1704	258	18.9	272	23.2	286	27.5	298	31.8	310	36.3	322	41.0	332	45.7	343	50.5	353	55.3	363	60.0
120000	1778	268	21.1	282	25.6	295	30.0	307	34.5	319	39.2	330	43.9	340	48.8	351	53.8	361	58.9	370	63.8
130000	1926	289	26.0	301	30.8	313	35.6	325	40.5	336	45.4	347	50.5	357	55.6	367	60.9	376	66.3	386	71.7
140000	2075	309	31.7	320	36.8	332	42.0	343	47.2	354	52.5	364	57.8	374	63.3	383	68.8	392	74.4	401	80.2
150000	2223	329	38.1	340	43.7	351	49.2	361	54.8	371	60.3	381	65.9	391	71.7	400	77.6	409	83.5	417	89.5
160000	2371	350	45.5	360	51.4	370	57.3	380	63.2	390	69.1	399	75.0	408	81.1	417	87.2	426	93.5	434	99.8
170000	2519	371	53.7	380	60.0	389	66.3	399	72.5	408	78.8	417	85.1	426	91.4	434	97.8	443	104.4	451	111.1
180000	2667	391	63.0	400	69.6	409	76.3	418	82.9	427	89.5	435	96.1	444	102.8	452	109.5	460	116.3	468	123.2
190000	2815	412	73.3	421	80.3	429	87.4	437	94.3	446	101.3	454	108.2	462	115.2	470	122.3	478	129.4	485	136.5
200000	2964	433	84.7	441	92.1	449	99.4	457	106.7	465	114.1	473	121.5	480	128.8	488	136.1	496	143.6	503	151.1
210000	3112	454	97.2	461	104.9	469	112.7	477	120.4	484	128.2	492	135.8	499	143.5	507	151.3	514	159.0	521	166.7
220000	3260	475	111.0	482	119.0	489	127.2	497	135.4	504	143.4	511	151.4	518	159.6	525	167.5	532	175.6	539	183.7
230000	3408	495	126.0	503	134.4	510	143.0	516	151.4	523	159.5	530	168.4	537	176.7	544	185.2	551	193.6	557	202.0
240000	3556	516	142.4	523	151.2	530	160.1	536	168.8	543	177.8	550	186.5	556	195.3	563	204.1	569	212.8	576	221.7
250000	3704	537	160.1	544	169.4	550	178.6	557	187.7	563	197.0	569	206.0	576	215.4	582	224.3	588	233.7	594	242.6
260000	3853	558	179.3	565	189.0	571	198.5	577	208.1	583	217.6	589	227.2	595	236.6	601	246.2	607	255.6	613	265.3
280000	4149	600	222.3	606	232.8	612	242.9	618	253.3	623	263.5	629	273.8	635	284.0	640	294.2	646	304.7	651	314.6
Volume O.Vel	3"SP		3-1/2"SP		4"SP		4-1/2"SP		5"SP		5-1/2"SP		6"SP		6-1/2"SP		7"SP		7-1/2"SP		
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
85000	1260	348	49.0																		
90000	1334	353	51.9	374	60.5																
95000	1408	358	55.0	378	63.8	399	73.0														
100000	1482	363	58.4	383	67.3	403	76.7	422	86.5												
105000	1556	370	61.9	389	71.1	408	80.7	426	90.6												
110000	1630	376	65.7	395	75.1	413	84.9	431	95.0	449	105.4										
115000	1704	382	69.6	401	79.3	419	89.4	436	99.7	453	110.2	470	121.2								
120000	1778	389	73.7	407	83.7	425	94.0	442	104.6	458	115.3	475	126.4	491	137.9						
130000	1926	404	82.6	421	93.2	438	104.0	454	115.1	470	126.4	485	137.9	500	149.6	515	161.7	530	174.1	545	186.8
140000	2075	418	91.9	435	103.6	451	115.0	467	126.5	482	138.3	497	150.4	512	162.8	526	175.2	540	187.8	554	200.7
150000	2223	434	101.8	450	114.4	466	126.9	481	139.2	495	151.5	510	164.0	523	176.7	537	189.7	551	202.9	564	216.4
160000	2371	450	112.6	465	125.9	480	139.3	495	152.5	509	165.5	523	178.6	536	191.8	550	205.4	563	219.3	575	232.9
170000	2519	466	124.4	481	138.1	496	152.3	510	166.5	523	180.5	537	194.3	550	208.2	563	222.3	575	236.5	588	250.8
180000	2667	483	137.2	498	151.5	512	166.2	525	181.2	538	196.2	551	211.0	564	225.7	577	240.5	589	255.1	600	269.9
190000	2815	500	151.2	514	166.2	528	181.3	541	196.7	554	212.5	566	228.3	579	244.0	591	259.8	602	275.0	614	290.4
200000	2964	517	166.4	531	181.8	544	197.5	557	213.5	570	229.8	582	246.3	594	263.0	606	279.7	617	296.0	628	312.1
210000	3112	535	182.5	548	198.6	561	214.9	574	231.5	586	248.3	598	265.4	609	282.7	621	300.3	632	317.9	643	334.8
220000	3260	552	200.1	566	216.8	578	233.7	590	250.8	602	268.1	614	285.8	625	303.7	636	321.7	647	340.3	658	358.4
230000	3408	570	219.0	583	236.2	595	253.8	607	271.6	619	289.4	630	307.4	641	326.0	652	344.5	663	363.4	673	382.9
240000	3556	588	239.3	601	257.0	613	275.1	624	293.4	636	312.2	647	330.8	658	349.5	668	368.9	679	388.1	689	407.8
250000	3704	607	260.9	619	279.4	630	298.1	642	317.0	653	336.0	664	355.4	674	374.9	684	394.4	695	414.6	705	434.4
260000	3853	625	284.3	637	303.2	648	322.3	659	341.8	670	361.8	681	381.5	691	401.6	701	421.9	711	442.1		
280000	4149	662	335.1	673	355.7	684	375.9	695	396.5	705	417.6	715	438.4								
Volume O.Vel	8"SP		8-1/2"SP		9"SP		9-1/2"SP		10"SP		10-1/2"SP		11"SP		11-1/2"SP		12"SP		13"SP		
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
140000	2075	568	214.2	581	227.5																
150000	2223	577	229.8	590	243.7	603	257.7	616	272.0	628	286.8										
160000	2371	588	247.0	600	261.4	613	275.6	625	290.5	637	305.1	649	320.5	661	335.6						
170000	2519	600	265.5	612	280.2	624	295.1	635	310.2	647	325.3	658	340.9	670	356.4	681	372.4	692	388.6		
180000	2667	612	285.3	624	300.2	635	315.8	647	331.3	658	347.1	669	362.9	680	379.1	691	395.1	702	412.0		
190000	2815	626	306.2	637	321.7	648	337.8	659	353.7	670	370.2	680	386.4	691	403.3	701	419.6	712	436.9		
200000	2964	639	328.7	650	344.6	661	361.2	672	377.6	682	394.5	693	411.2	703	428.7	713	445.5				
210000	3112	654	352.1	664	368.9	6															

Arrangement 1 & 9

Size 4025 Through 8075
Class I and II SISW

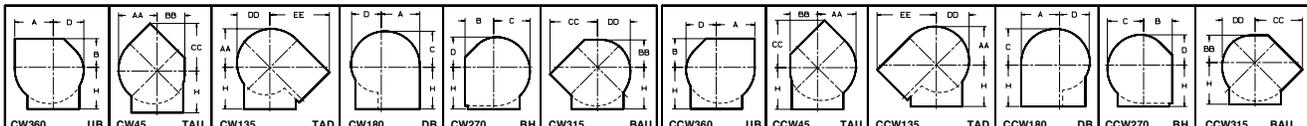
CCW 90 TH SHOWN
CW 90 TH OPPOSITE HAND



FAN SIZE	DISCH. POS.	CENTER DISTANCE							
		143 145	182 184	213 215	254 256	284 286	324 326	364 365	404 405
4025	UB	26.2	26.7	27.1	27.6	27.9	28.7	29.2	-
	TAU	24.9	25.4	25.8	26.3	26.7	27.4	28.0	-
	TH	24.1	24.6	25.0	25.6	26.0	26.8	27.3	-
	TAD	25.00	25.5	25.9	26.4	26.8	27.5	28.1	-
4450	BH-BAU	27.2	27.7	28.1	28.6	28.9	29.6	30.1	-
	UB	29.7	30.2	30.6	31.1	31.4	32.1	32.6	-
	TAU	28.1	28.6	29.0	29.6	29.9	30.6	31.2	-
	TH	26.7	27.2	27.6	28.1	28.5	29.2	29.7	-
4900	TAD	28.1	28.6	29.0	29.6	29.9	30.6	31.2	-
	BH-BAU	30.7	31.2	31.6	32.1	32.4	33.1	33.6	-
	UB	31.8	32.2	32.6	33.0	33.3	34.0	34.5	35.2
	TAU	29.7	30.1	30.5	30.9	31.2	31.9	32.3	33.1
5425	TH	28.9	29.3	29.7	30.2	30.5	31.2	31.7	32.4
	TAD	29.7	30.1	30.5	30.9	31.2	31.9	32.3	33.1
	BH-BAU	33.0	33.4	33.7	34.2	34.5	35.2	35.6	36.3
	UB	34.1	34.4	34.7	35.2	35.4	36.0	36.4	37.1
6000	TAU	32.3	32.6	33.0	33.4	33.7	34.3	34.7	35.4
	TH	30.9	31.3	31.6	32.0	32.3	32.9	33.4	34.1
	TAD	32.5	32.8	33.0	33.6	33.9	34.5	34.9	35.6
	BH-BAU	35.5	35.9	36.2	36.6	36.8	37.4	37.8	38.4
6000	UB	38.7	39.1	39.5	39.9	40.2	40.8	41.2	41.9
	TAU	36.6	37.0	37.3	37.8	38.1	38.7	39.1	39.8
	TH	35.2	35.7	36.0	36.5	36.8	37.4	37.8	38.5
	TAD	36.9	37.3	37.6	38.1	38.4	39.0	39.4	40.1
6000	BH-BAU	40.1	40.5	40.8	41.3	41.6	42.1	42.5	43.2

1. ADD OR SUBTRACT 1-1/2" FOR MINIMUM & MAXIMUM CENTERS.
2. SIZES 6600 THROUGH 8075 AVAILABLE IN ARRANGEMENT 1 ONLY.

ROTATION AND DISCHARGE POSITIONS (DRIVE SIDE)



DIMENSIONS - INCHES

FAN SIZE	Shaft Dia @ Bearing		KEYWAY		A	B		C	D	E	F	G	H					J
	CL-I	CL-II	CL-I	CL-II		UB, TAU, TH, DB, BH, BAU	TAD						UB	TAU	TH	TAD	BH BAU	
4025	2-3/16	2-7/16	1/2 x 1/4	5/8 x 5/16	38-11/16	28-3/4	45	36-3/8	30-3/8	52-1/2	41-1/4	26-1/8	40-1/2	37	34-1/2	37-1/2	43	30-1/2
4450	2-3/16	2-11/16	1/2 x 1/4	5/8 x 5/16	42-13/16	31-1/2	49	40-3/16	33-9/16	57-3/4	45-1/2	27-13/16	44-1/2	40-1/2	37-1/2	40-1/2	47	33
4900	2-7/16	2-11/16	5/8 x 5/16	5/8 x 5/16	47-1/8	34-3/4	53-15/16	44-1/4	36-15/16	64-1/4	50	29-5/8	48-1/2	44-1/2	41	44-1/2	51-1/2	34-1/2
5425	2-7/16	2-15/16	5/8 x 5/16	3/4 x 3/8	52-1/8	38-1/4	59-1/2	48-15/16	40-7/8	70	55-3/8	31-11/16	53	48-1/2	45	49	56-1/2	34-1/2
6000	2-11/16	3-3/16	5/8 x 5/16	3/4 x 3/8	57-5/8	42-1/4	65-11/16	54-1/8	45-3/16	78	61	33-15/16	58-1/2	53	49-1/2	53-3/4	62	34-1/2
6600	2-15/16	3-3/16	3/4 x 3/8	3/4 x 3/8	63-7/16	46-3/4	72-9/16	59-9/16	49-3/4	85-1/2	67-3/8	36-7/16	66	60	56	59-1/4	69-1/2	35
7300	2-15/16	3-3/16	3/4 x 3/8	3/4 x 3/8	70-1/8	51-3/4	80-1/4	65-7/8	55	95-1/2	74-3/8	39-3/16	70	64	59	65	74-1/2	35
8075	3-3/16	3-7/16	3/4 x 3/8	7/8 x 7/16	77-9/16	56-1/4	87-5/16	72-7/8	60-13/16	104-1/2	82-1/8	42-1/4	77	70	65	70-1/2	81-1/2	38

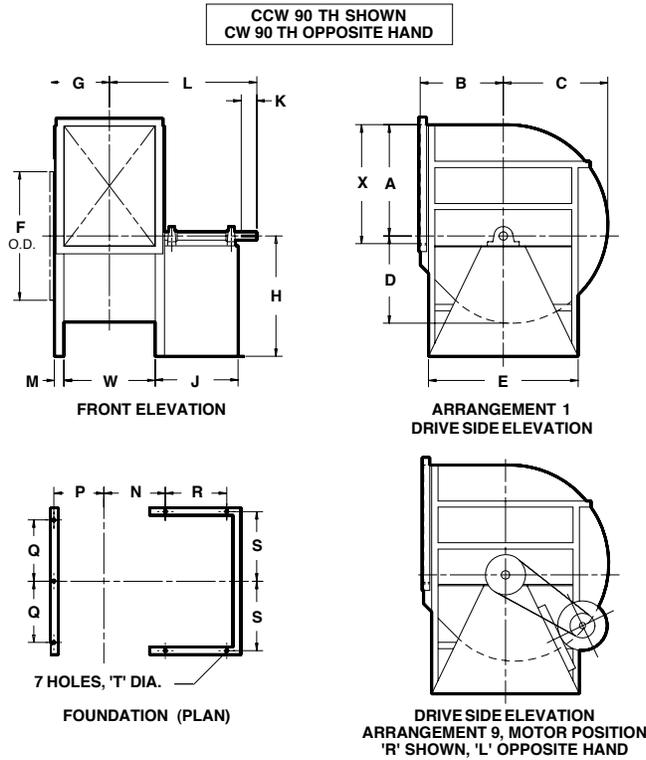
FAN SIZE	K		L		M	N	P	Q	R	S	T	W	X	AA	BB	CC	DD	EE
	CL-I	CL-II	CL-I	CL-II														
4025	4-1/2	6	52	53-1/2	3	22-1/16	17-13/16	21-1/4	22-1/2	25	7/8	32-1/8	42-5/16	38-3/4	27-1/2	47-11/16	32-15/16	59-1/8
4450	5	6	58	58	3	23-3/4	19-1/2	23-7/8	25	27-5/8	7/8	35-7/16	46-3/4	42-13/16	30-7/16	52-9/16	36-3/8	64-15/16
4900	5	7	62	62	3	25-1/2	21-1/4	27-1/8	26-1/2	30-7/8	7/8	39	51-7/16	47-1/8	33-1/2	57-7/8	40-1/16	71-1/2
5425	5	7	64	64	3	27-5/8	23-3/8	30	26-1/2	33-3/4	7/8	43-3/16	56-15/16	52-3/16	37-1/16	63-15/16	44-3/8	78-15/16
6000	6	8	65	67	3	29-7/8	25-5/8	33	26-1/2	37-3/4	7/8	47-11/16	62-15/16	57-11/16	40-15/16	70-5/8	49-1/16	87-3/16
6600	6	8	68	70	4	34-1/4	28-1/2	36-3/4	25	41-1/4	7/8	52-7/16	69-5/16	63-1/2	45-1/16	77-15/16	53-15/16	96-3/16
7300	7	8	72	73	4	37	31-1/4	40-3/4	25	46-1/4	7/8	58	76-5/8	70-3/16	49-7/8	86-3/16	59-11/16	106-5/16
8075	8	8	79	79	4	40-1/16	34-5/16	45-1/4	28	50-3/4	7/8	64-1/8	84-3/4	77-5/8	55-1/8	94-5/8	66	116-9/16

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED.



Arrangement 1 & 9

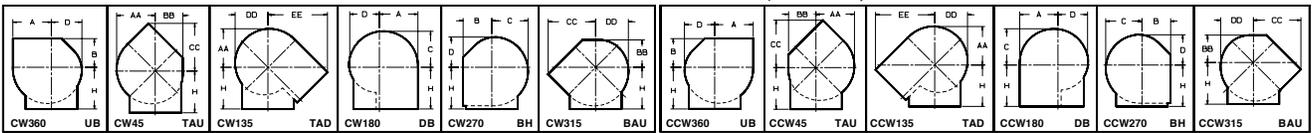
Size 2225 Through 6600
Class III SISW



FAN SIZE	DISCH POS'N	CENTER DISTANCE							
		182-184	213-215	254-256	284-286	324-326	364-366	404-406	
2225	ALL	20.6	21.2	22.0	22.5	23.5	-	-	
2450	ALL	21.2	21.7	22.5	23.0	24.0	-	-	
2700	ALL	-	23.1	23.8	24.3	25.2	25.9	-	
3000	ALL	-	24.7	25.4	25.8	26.7	27.3	-	
3300	ALL	-	-	26.0	26.4	27.3	27.9	28.9	
3650	ALL	-	-	26.9	27.2	28.0	28.6	29.4	
4025	UB	-	-	-	27.9	28.7	29.2	30.0	
	TAU	-	-	-	26.6	27.3	27.9	28.8	
	TH	-	-	-	25.5	26.3	26.9	27.8	
	TAD	-	-	-	26.8	27.5	28.1	28.9	
4450	BH-BAU	-	-	-	28.9	29.6	30.1	31.0	
	UB	-	-	-	31.2	31.9	32.4	33.3	
	TAU	-	-	-	29.7	30.4	31.0	31.8	
	TH	-	-	-	28.5	29.3	29.9	30.7	
4900	TAD	-	-	-	-	30.4	31.0	31.8	
	BH-BAU	-	-	-	32.5	33.3	33.8	34.6	
	UB	-	-	-	33.2	33.8	34.3	35.1	
	TAU	-	-	-	31.6	32.3	32.8	33.6	
5425	TH	-	-	-	30.3	31.0	31.5	32.3	
	TAD	-	-	-	31.6	32.3	32.8	33.6	
	BH-BAU	-	-	-	34.3	35.0	35.5	36.2	
	UB	-	-	-	35.6	36.2	36.7	37.4	
6000	TAU	-	-	-	33.9	34.5	34.9	35.7	
	TH	-	-	-	32.5	33.2	33.6	34.4	
	TAD	-	-	-	34.0	34.7	35.1	35.8	
	BH-BAU	-	-	-	37.0	37.6	38.0	38.7	
6600	UB	-	-	-	39.8	40.4	40.8	41.5	
	TAU	-	-	-	37.7	38.3	38.7	39.4	
	TH	-	-	-	36.3	36.9	37.4	38.0	
	TAD	-	-	-	38.0	38.6	39.0	39.6	
6600	BH-BAU	-	-	-	41.2	41.8	42.2	42.8	

1. ADD OR SUBTRACT 1-1/2" FOR MIN. & MAX. CENTERS.
2. SIZE 6600 AVAILABLE IN ARRANGEMENT 1 ONLY.

ROTATION AND DISCHARGE POSITIONS (DRIVE SIDE)



DIMENSIONS - INCHES

FAN SIZE	SHAFT DIA. @ BEARIN	KEYWAY	A	B		C	D	E	F	G	H					J	K
				TH, UB, TAU, BH & BAU	TAD						UB	TAU	TH	TAD	BH,BAU		
2225	2-7/16	5/8 x 5/16	21-1/2	18-1/4	28-3/8	20-3/16	16-7/8	31-3/4	26-3/8	10-15/16	29	29	29	29	29	25-1/2	5
2450	2-7/16	5/8 x 5/16	23-5/8	20	31-1/8	22-1/4	18-9/16	34	28-5/8	11-13/16	30	30	30	30	30	27-1/2	5
2700	2-7/16	5/8 x 5/16	26-1/16	21-3/4	33-1/2	24-1/2	20-7/16	37-1/4	31-1/8	12-13/16	32	32	32	32	32	29-1/2	6
3000	2-11/16	5/8 x 5/16	28-15/16	23-3/4	36-1/2	27-3/16	22-11/16	41-1/4	34-5/8	14-1/2	34	34	34	34	34	30-1/2	6
3300	2-11/16	5/8 x 5/16	31-13/16	25-1/4	39	29-7/8	24-15/16	44-1/4	37-5/8	15-11/16	35	35	35	35	35	31-1/2	7
3650	2-15/16	3/4 x 3/8	35-1/8	27	41-1/2	33	27-9/16	47-3/4	41-1/8	17-1/16	38-1/2	38-1/2	38-1/2	38-1/2	38-1/2	34	7
4025	2-15/16	3/4 x 3/8	38-3/4	29-1/4	45-1/2	36-3/8	30-3/8	52-1/2	41-1/4	26-1/8	40-1/2	37	34-1/2	37-1/2	43	35	7
4450	3-3/16	3/4 x 3/8	42-13/16	32	49-1/2	40-3/16	33-9/16	57-3/4	45-1/2	27-13/16	44-1/2	40-1/2	37-1/2	40-1/2	47	35	8
4900	3-3/16	3/4 x 3/8	47-1/8	35-1/4	54-1/2	44-1/4	36-15/16	64-1/4	50	29-5/8	48-1/2	44-1/2	41	44-1/2	51-1/2	35	8
5425	3-7/16	7/8 x 7/16	52-3/16	38-3/4	60	49	40-7/8	70	55-3/8	31-11/16	53	48-1/2	45	49	56-1/2	35	8
6000	3-15/16	1 x 1/2	57-11/16	42-3/4	66-1/4	54-3/16	45-3/16	78	61	33-15/16	58-1/2	53	49-1/2	53-3/4	62	37	8
6600	3-15/16	1 x 1/2	63-1/2	47-1/4	73	59-5/8	49-3/4	85-1/2	67-3/8	36-7/16	66	60	56	59-1/4	69-1/2	42	8

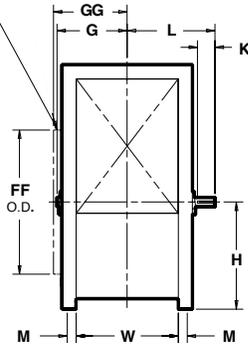
FAN SIZE	L	M	N	P	Q	R	S	T	W	X	AA	BB	CC	DD	EE
2225	40-1/2	3	14-15/16	10-11/16	10-7/8	17-1/2	14-5/8	5/8	17-7/8	23-9/16	21-1/2	15-5/16	29-9/16	18-3/16	36-11/16
2450	43	3	15-13/16	11-9/16	12	19-1/2	15-3/4	5/8	19-5/8	25-7/8	23-5/8	16-13/16	32-5/8	20-1/8	40-1/2
2700	47-1/2	3	16-13/16	12-9/16	13-5/8	21-1/2	17-3/8	5/8	21-5/8	28-1/2	26-1/16	18-1/2	35-9/16	22-3/16	43-7/8
3000	49-1/2	3	18	13-3/4	15-5/8	22-1/2	19-3/8	5/8	24	31-5/8	28-15/16	20-9/16	39	24-5/8	48
3300	53	3	19-3/16	14-15/16	17-1/8	23-1/2	20-7/8	5/8	26-3/8	34-13/16	31-13/16	22-5/8	42-1/8	27-1/16	51-7/8
3650	56-1/2	3	20-9/16	16-5/16	18-7/8	26	22-5/8	5/8	29-1/8	38-7/16	35-3/16	25	45-11/16	29-7/8	56
4025	59	4	24-1/8	18-5/16	21-1/4	25	24-1/2	7/8	32-3/16	42-3/8	38-3/4	27-9/16	50-1/4	32-15/16	61-11/16
4450	61-1/2	4	25-3/4	20	23-7/8	25	27-1/8	7/8	35-9/16	46-13/16	42-7/8	30-7/16	55	36-7/16	67-3/8
4900	63	4	27-9/16	21-13/16	27-1/8	25	30-3/8	7/8	39-1/8	51-1/2	47-3/16	33-1/2	60-3/8	40-1/8	74
5425	65-3/8	4	29-5/8	23-7/8	30	25	33-1/4	7/8	43-1/4	57	52-3/16	37-1/16	66-7/16	44-3/8	81-7/16
6000	70	4	31-7/8	26-1/8	33	27	37-1/4	7/8	47-13/16	63	57-3/4	41	73-3/16	49-1/16	89-3/4
6600	77-1/2	6	38-1/4	29-3/4	36-3/4	28	40-1/4	7/8	52-9/16	69-3/8	63-9/16	45-1/8	80-7/16	54	98-11/16

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED.

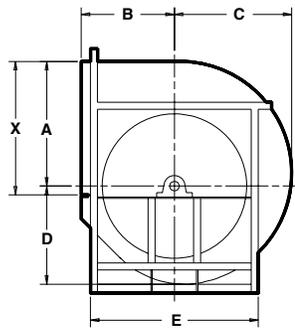
Arrangement 3

Size 1825 Through 3650
Class I and II SISW & DIDW

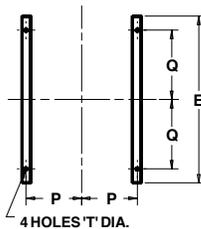
OPTIONAL SLIP FIT
INLET SLEEVE, A/3 SISW



FRONT ELEVATION



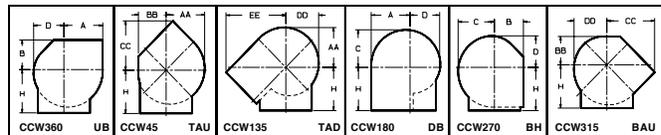
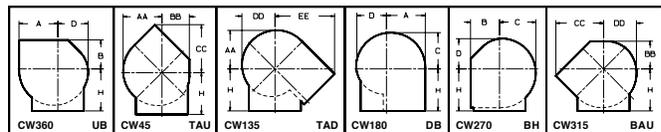
DRIVE SIDE ELEVATION



FOUNDATION (PLAN)

CCW 90 TH SHOWN
CW 90 TH OPPOSITE HAND

ROTATION AND DISCHARGE POSITIONS (DRIVE SIDE)



DIMENSIONS - INCHES

FAN SIZE	SHAFT				KEYWAY				A	B		C	D	E	G			
	SISW		DIDW		SISW		DIDW			UB, TAU, TH, DB, BH, BAU	TAD				SISW		DIDW	
	CL-I	CL-II	CL-I	CL-II	CL-I	CL-II	CL-I	CL-II							CL-I	CL-II	CL-I	CL-II
1825	15/16	1-7/16	1-11/16	1-15/16	1/4 x 1/8	3/8 x 3/16	3/8 x 3/16	3/8 x 3/16	17-9/16	14	22-3/8	16-1/2	13-13/16	24-3/4	10	10-1/2	16-3/4	17
2000	15/16	1-7/16	1-15/16	2-3/16	1/4 x 1/8	3/8 x 3/16	1/2 x 1/4	1/2 x 1/4	19-1/4	15-1/2	24-7/8	18-1/16	15-1/8	27-1/2	10-3/4	11-1/4	18-1/4	18-1/2
2225	1-3/16	1-7/16	1-15/16	2-7/16	1/4 x 1/8	3/8 x 3/16	1/2 x 1/4	5/8 x 5/16	21-7/16	17-3/4	27-7/8	20-1/8	16-13/16	31-3/4	12	12-1/2	20	20-1/2
2450	1-3/16	1-11/16	1-15/16	2-11/16	1/4 x 1/8	3/8 x 3/16	1/2 x 1/4	5/8 x 5/16	23-5/8	19-1/2	30-5/8	22-3/16	18-1/2	34	12-3/4	13-1/4	21-1/2	22-1/4
2700	1-7/16	2-3/16	2-3/16	2-15/16	3/8 x 3/16	1/2 x 1/4	1/2 x 1/4	3/4 x 3/8	26	21-1/4	33	24-7/16	20-3/8	37-1/4	14	14-1/2	23-1/2	24-1/2
3000	1-7/16	2-7/16	2-7/16	2-15/16	3/8 x 3/16	5/8 x 5/16	5/8 x 5/16	3/4 x 3/8	28-7/8	23-1/4	36	27-1/8	22-5/8	41-1/4	15-1/2	16	26	27-5/8
3300	1-11/16	2-3/16	2-7/16	3-3/16	3/8 x 3/16	1/2 x 1/4	5/8 x 5/16	3/4 x 3/8	31-3/4	24-3/4	38-1/2	29-13/16	24-7/8	44-1/4	16-1/2	17-1/2	28-1/4	29-13/16
3650	1-15/16	2-7/16	2-11/16	2-7/16	1/2 x 1/4	5/8 x 5/16	5/8 x 5/16	5/8 x 5/16	35-1/8	26-1/2	41	33	27-1/2	47-3/4	18-3/4	19-1/4	31	32-1/16

FAN SIZE	H							K				L				M	P		
	UB	TAU	TH	TAD	DB	BH,BAU	CL-I	CL-II	CL-I	CL-II	CL-I	CL-II	CL-I	CL-II	CL-I		CL-II	SISW	DIDW
1825	19-1/2	18	17	19-1/2	14-1/2	20-1/2	3	4	4	4-1/2	13-3/4	15-1/4	21-3/4	22-1/2	1-1/2	8-3/16	14-1/4		
2000	22	19-1/2	18-1/2	21-1/2	16	22-1/2	3	4	4	4-1/2	14-1/2	16	23-1/4	24	1-1/2	8-7/8	15-1/2		
2225	23-1/2	21-1/2	20	23-1/2	18-1/4	24-1/2	4	4	4	5	16-3/4	17-1/4	25	26-1/2	2	10	17-13/32		
2450	25-1/2	23	21-1/2	26	20	27	4	4-1/2	4	5	17-1/2	18-1/2	26-1/2	28-1/4	2	10-7/8	19		
2700	27-1/2	25-1/2	23-1/2	28	21-3/4	29	4	4-1/2	4-1/2	6	18-3/4	20	29	31-3/4	2	11-7/8	20-7/8		
3000	30-1/2	27-1/2	26	30	23-3/4	32	4	5	4-1/2	6	20-1/4	21-3/4	31-3/4	35-3/16	2-1/2	13-3/8	23-1/4		
3300	33	30	28	32	25-1/4	35	4-1/2	5	5	7	21-3/4	23-1/2	34-1/4	38-7/16	2-1/2	14-9/16	25-1/2		
3650	36	33	30-1/2	34	27	38-1/2	4-1/2	5	5	7	24-1/4	25	37	40-1/2	2-1/2	15-15/16	28		

FAN SIZE	Q	T	W		X		AA	BB	CC	DD	EE	FF	GG
			SISW	DIDW	SISW	DIDW							
			SISW	SISW									
1825	9-3/8	1/2	14-5/8	26-3/4	19-1/4	18-13/16	17-5/8	12-1/2	22-5/16	14-15/16	28-1/4	18-3/4	8-13/16
2000	10-3/4	1/2	16	29-5/16	21-1/16	20-5/8	19-1/4	13-11/16	24-9/16	16-3/8	31-3/16	20-1/2	10
2225	11-7/8	5/8	17-13/16	32-9/16	23-7/16	22-15/16	21-7/16	15-1/4	27-11/16	18-1/4	34-7/8	22-3/4	10-15/16
2450	13	5/8	19-9/16	35-13/16	25-13/16	25-5/16	23-5/8	16-3/4	30-1/2	20-1/16	38-3/8	25	11-13/16
2700	14-5/8	5/8	21-9/16	39-1/2	28-7/16	27-7/8	26	18-1/2	33-7/16	22-1/8	41-11/16	27-1/2	12-13/16
3000	16-5/8	5/8	23-15/16	43-13/16	31-9/16	30-15/16	28-7/8	20-9/16	36-7/8	24-9/16	45-15/16	30-5/8	14-1/2
3300	18-1/8	5/8	26-3/8	48-1/4	34-3/4	34	31-3/4	22-9/16	39-15/16	27	49-11/16	33-5/8	15-11/16
3650	19-7/8	5/8	29-1/8	53-5/16	38-3/8	37-5/8	35-1/8	24-15/16	43-9/16	29-7/8	54	37-1/8	17-1/16

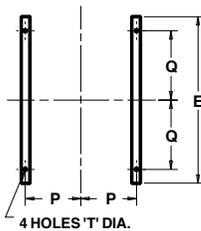
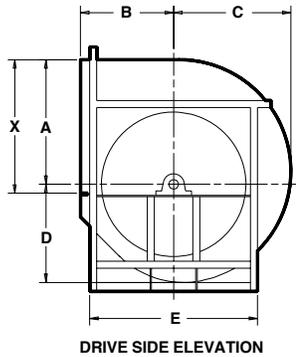
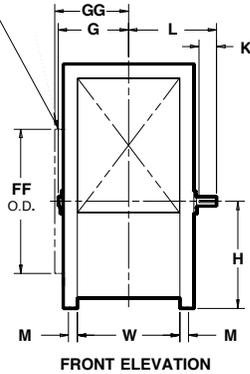
DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED.



Arrangement 3

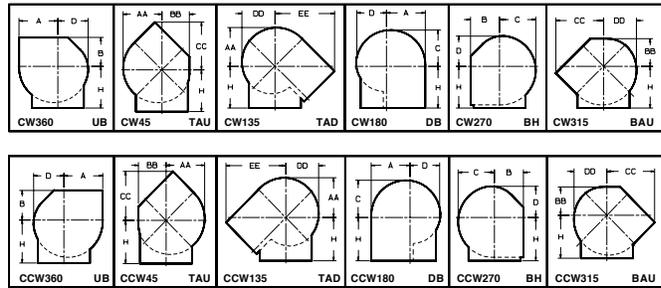
Size 4025 Through 8075
Class I and II SISW & DIDW

OPTIONAL SLIP FIT
INLET SLEEVE, A/3 SISW



CCW 90 TH SHOWN
CW 90 TH OPPOSITE HAND

ROTATION AND DISCHARGE POSITIONS (DRIVE SIDE)



DIMENSIONS - INCHES

FAN SIZE	SHAFT				KEYWAY				A	B			C	D	E
	SISW		DIDW		SISW		DIDW			UB, TAU, TH, DB, BH, BAU	TAD				
	CL-I	CL-II	CL-I	CL-II	CL-I	CL-II	CL-I	CL-II							
4025	1-15/16	2-3/16	2-15/16	2-11/16	1/2 x 1/4	1/2 x 1/4	3/4 x 3/8	5/8 x 5/16	38-11/16	28-3/4	45	36-3/8	30-3/8	52-1/2	
4450	1-15/16	2-3/16	2-3/16	2-15/16	1/2 x 1/4	1/2 x 1/4	1/2 x 1/4	3/4 x 3/8	42-13/16	31-1/2	49	40-3/16	33-9/16	57-3/4	
4900	2-3/16	2-7/16	2-7/16	3-3/16	1/2 x 1/4	5/8 x 5/16	5/8 x 5/16	3/4 x 3/8	47-1/8	34-3/4	53-15/16	44-1/4	36-15/16	64-1/4	
5425	1-15/16	2-11/16	2-11/16	3-7/16	1/2 x 1/4	5/8 x 5/16	5/8 x 5/16	7/8 x 7/16	52-1/8	38-1/4	59-1/2	48-15/16	40-7/8	70	
6000	2-3/16	2-15/16	2-15/16	3-15/16	1/2 x 1/4	3/4 x 3/8	3/4 x 3/8	1 x 1/2	57-5/8	42-1/4	65-11/16	54-1/8	45-3/16	78	
6600	2-7/16	3-3/16	3-3/16	3-15/16	5/8 x 5/16	3/4 x 3/8	3/4 x 3/8	1 x 1/2	63-7/16	46-3/4	72-9/16	59-9/16	49-3/4	85-1/2	
7300	2-11/16	3-3/16	3-7/16	4-3/16	5/8 x 5/16	3/4 x 3/8	7/8 x 7/16	1 x 1/2	70-1/8	51-3/4	80-1/4	65-7/8	55	95-1/2	
8075	2-15/16	3-7/16	3-15/16	4-15/16	3/4 x 3/8	7/8 x 7/16	1 x 1/2	1-1/4 x 5/8	77-9/16	56-1/4	87-5/16	72-7/8	60-13/16	104-1/2	

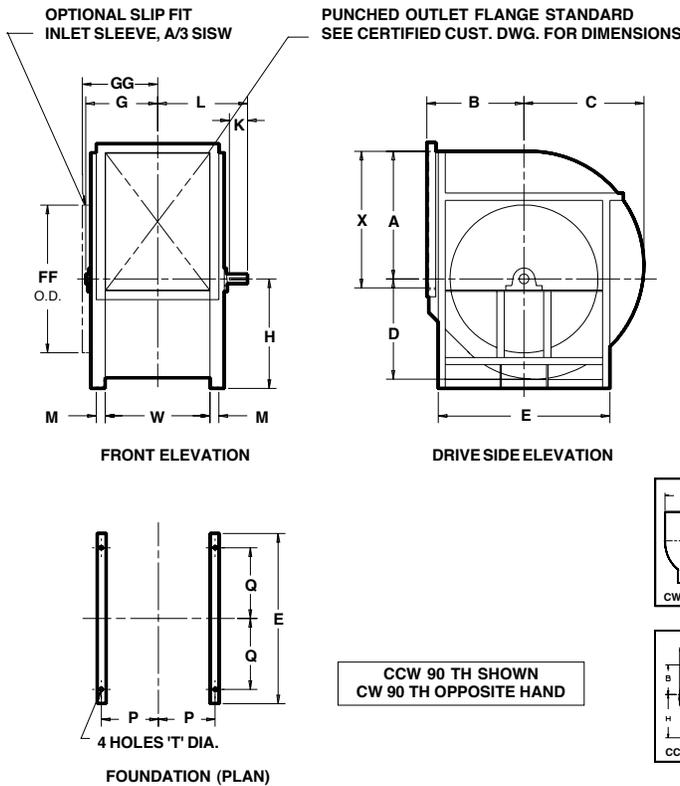
FAN SIZE	G				H						K				L				M
	SISW		DIDW		UB	TAU	TH	TAD	DB	BH BAU	SISW		DIDW		SISW		DIDW		
	CL-I	CL-II	CL-I	CL-II							CL-I	CL-II	CL-I	CL-II	CL-I	CL-II	CL-I	CL-II	
4025	19-3/4	20-3/4	34-1/2	34-15/16	40-1/2	37	34-1/2	37-1/2	29-1/4	43	4-1/2	6	6	7	25	27-1/2	41-1/2	43-9/16	3
4450	22	22-1/2	37-1/4	38-3/16	44-1/2	40-1/2	37-1/2	40-1/2	32	47	5	6	6	8	27-3/4	29-1/4	44-1/4	47-11/16	3
4900	24	24-1/4	40-3/4	42	48-1/2	44-1/2	41	44-1/2	35-1/4	51-1/2	5	7	7	8	29-3/4	32-1/4	48-3/4	51-1/2	3
5425	26-1/4	27-1/8	45-1/16	46-5/8	53	48-1/2	45	49	38-3/4	56-1/2	5	7	7	8	32-7/16	35-3/4	53-1/2	56-3/8	3
6000	28-1/2	29-9/16	49-7/16	51-3/8	58-1/2	53	49-1/2	53-3/4	42-3/4	62	6	8	7	8	36-5/16	39-3/4	57-15/16	61	3
6600	31	32-1/2	54-3/8	55-3/4	66	60	56	59-1/4	47-1/4	69-1/2	6	8	8	8	39-1/8	42-1/4	63-13/16	65-1/2	4
7300	34-1/2	35-1/4	60-5/16	61-5/16	70	64	59	65	52-1/4	74-1/2	7	8	8	8	43	45	69-7/8	71	4
8075	37-3/4	39-1/8	66-1/2	67-3/4	77	70	65	70-1/2	57-3/4	81-1/2	7	8	8	8	46-7/16	48-5/8	76-1/4	77-1/2	4

FAN SIZE	P		Q	T	W		X		AA	BB	CC	DD	EE	FF	GG
	SISW	DIDW			SISW	DIDW	SISW	DIDW							
	SISW	DIDW	SISW	DIDW	SISW	DIDW	SISW	DIDW							
4025	17-13/16	31-3/16	21-1/4	7/8	32-1/8	58-13/16	42-5/16	41-7/16	38-3/4	27-1/2	47-11/16	32-15/16	59-1/8	41-1/4	18-5/8
4450	19-1/2	34-1/4	23-7/8	7/8	35-7/16	65	46-3/4	45-13/16	42-13/16	30-7/16	52-9/16	36-3/8	64-15/16	45-1/2	20-5/8
4900	21-1/4	37-1/2	27-1/8	7/8	39	71-1/2	51-7/16	50-3/8	47-1/8	33-1/2	57-7/8	40-1/16	71-1/2	50	22-1/8
5425	23-3/8	41-5/16	30	7/8	43-3/16	79-1/8	56-15/16	55-3/4	52-3/16	37-1/16	63-15/16	44-3/8	78-15/16	55-3/8	24-1/4
6000	25-5/8	45-1/2	33	7/8	47-11/16	87-1/2	62-15/16	61-11/16	57-11/16	40-15/16	70-5/8	49-1/16	87-3/16	61	26-7/16
6600	28-1/2	50-5/8	36-3/4	7/8	52-7/16	96-1/4	69-5/16	67-7/8	63-1/2	45-1/16	77-15/16	53-15/16	96-3/16	67-3/8	29-7/16
7300	31-1/4	55-3/4	40-3/4	7/8	58	106-7/16	76-5/8	75-1/16	70-3/16	49-7/8	86-3/16	59-11/16	106-5/16	74-3/8	32-3/16
8075	34-5/16	61-1/8	45-1/4	7/8	64-1/8	117-11/16	84-3/4	83	77-5/8	55-1/8	94-5/8	66	116-9/16	82-1/8	35-1/4

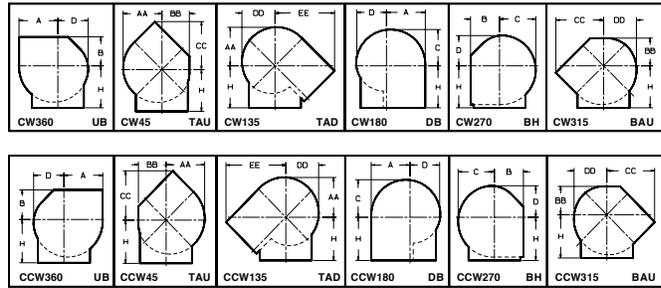
DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED.

Arrangement 3

Size 2225 Through 6600
Class III SISW & DIDW



ROTATION AND DISCHARGE POSITIONS (DRIVE SIDE)



DIMENSIONS - INCHES

FAN SIZE	SHAFT		KEYWAY		A	B		C	D	E	G		H				K			
	SISW	DIDW	SISW	DIDW		UB, TAU, TH, DB, BH, BAU	TAD				SISW	DIDW	UB	TAU	TH	TAD	DB	BH, BAU	SISW	DIDW
2225	1-11/16	1-15/16	3/8 x 3/16	1/2 x 1/4	21-1/2	18-1/4	28-3/8	20-3/16	16-7/8	31-3/4	23-1/2	21-1/2	23-1/2	21-1/2	20	24	18-1/4	24-1/2	5	6
2450	1-11/16	2-7/16	3/8 x 3/16	5/8 x 5/16	23-5/8	20	31-1/8	22-3/16	18-9/16	34	25-1/2	23-5/16	25-1/2	23	21-1/2	26-1/2	20	27	5	7
2700	1-15/16	2-7/16	1/2 x 1/4	5/8 x 5/16	26-1/16	21-3/4	33-1/2	24-7/16	20-7/16	37-1/4	27-1/2	25-1/8	27-1/2	25-1/2	23-1/2	28	21-3/4	29	6	7
3000	1-15/16	2-11/16	1/2 x 1/4	5/8 x 5/16	28-15/16	23-3/4	36-1/2	27-1/8	22-11/16	41-1/4	30-1/2	27-7/16	30-1/2	27-1/2	26	30-1/2	23-3/4	32	6	8
3300	2-3/16	2-15/16	1/2 x 1/4	3/4 x 3/8	31-3/16	25-1/4	39	29-7/8	24-15/16	44-1/4	33	29-13/16	33	30	28	32-1/2	25-1/4	35	7	8
3650	2-3/16	2-15/16	1/2 x 1/4	3/4 x 3/8	35-1/8	27	41-1/2	33	27-9/16	47-3/4	36	32-3/8	36	33	30-1/2	34-1/2	27	38-1/2	7	8
4025	2-7/16	3-3/16	5/8 x 5/16	3/4 x 3/8	38-3/4	29-1/4	45-1/2	36-3/8	30-3/8	52-1/2	40-1/2	35-11/16	40-1/2	37	34-1/2	37-1/2	29-1/4	43	7	8
4450	2-11/16	3-15/16	5/8 x 5/16	1 x 1/2	42-13/16	32	49-1/2	40-3/16	33-9/16	57-3/4	44-1/2	40-3/16	44-1/2	40-1/2	37-1/2	40-1/2	32	47	8	8
4900	2-15/16	3-15/16	3/4 x 3/8	1 x 1/2	47-1/8	35-1/4	54-1/2	44-1/4	36-15/16	64-1/4	48-1/2	43-7/16	48-1/2	44-1/2	41	44-1/2	35-1/4	51-1/2	8	8
5425	3-3/16	4-3/16	3/4 x 3/8	1 x 1/2	52-3/16	38-3/4	60	49	40-7/8	70	53	47-11/16	53	48-1/2	45	49	38-3/4	56-1/2	8	8
6000	3-7/16	3-15/16	7/8 x 7/16	1 x 1/2	57-11/16	42-3/4	66-1/4	54-3/16	45-3/16	78	58-1/2	51-7/16	58-1/2	53	49-1/2	53-3/4	42-3/4	62	8	8
6600	3-15/16	4-3/16	1 x 1/2	1 x 1/2	63-1/2	47-1/4	73	59-5/8	49-3/4	85-1/2	66	56-1/4	66	60	56	59-1/4	47-1/4	69-1/2	8	8

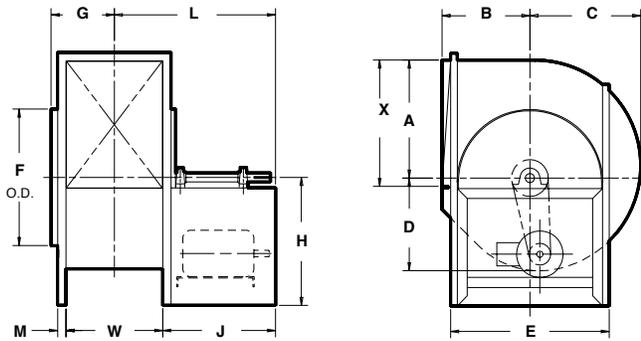
FAN SIZE	L		M	P		Q	T	W		X		AA	BB	CC	DD	EE	FF SISW	GG SISW
	SISW	DIDW		SISW	DIDW			SISW	DIDW	SISW	DIDW							
2225	19-1/2		3	10-11/16	18-1/16	10-7/8	5/8	17-7/8	32-5/8	23-9/16	23-1/16	21-1/2	15-5/16	29-3/16	18-5/16	36-5/16	22-3/4	10-15/16
2450	20-1/2	31-3/4	3	11-9/16	19-11/16	12	5/8	19-5/8	35-7/8	25-7/8	25-3/8	23-5/8	16-13/16	32-1/4	20-1/8	40-1/8	25	11-13/16
2700	22-3/4	33-5/8	3	12-9/16	21-1/2	13-5/8	7/8	21-5/8	39-1/2	28-1/2	27-15/16	26-1/16	18-1/2	35-1/4	43-9/16	27-1/2	12-13/16	
3000	23-7/8	37	3	13-3/4	23-11/16	15-5/8	5/8	24	43-7/8	31-5/8	31	28-15/16	20-9/16	38-11/16	24-5/8	47-11/16	30-5/8	14-1/2
3300	26-13/16	39-1/4	3	14-15/16	25-7/8	17-1/8	5/8	26-3/8	48-1/4	34-13/16	34-1/16	31-13/16	22-5/8	41-1/16	27-1/16	50-3/4	33-5/8	15-11/16
3650	28-1/16	41-15/16	3	16-5/16	28-1/2	18-7/8	5/8	29-1/8	53-5/16	38-7/16	37-5/8	35-3/16	25	45-3/8	29-7/8	55-5/8	37-1/8	17-1/16
4025	29-3/8	45-1/4	4	18-5/16	31-11/16	21-1/4	7/8	32-3/16	58-7/8	42-3/8	41-1/2	38-3/4	27-9/16	49-1/2	32-15/16	61	41-1/4	18-3/4
4450	33	49-11/16	4	20	34-3/4	23-7/8	7/8	35-9/16	65-1/16	46-13/16	45-7/8	42-7/8	30-7/16	54-5/16	36-7/16	66-11/16	45-1/2	20-3/4
4900	34-15/16	53	4	21-13/16	38-1/16	27-1/8	7/8	39-1/8	71-5/8	51-1/2	50-7/16	47-3/16	33-1/2	59-11/16	40-1/8	73-1/4	50	22-3/16
5425	37-3/8	57-1/4	4	23-7/8	41-7/8	31	7/8	43-1/4	79-1/4	57	55-13/16	52-3/16	37-1/16	66-1/16	44-3/8	81-1/8	55-3/8	24-5/16
6000	40-5/8	61	4	26-1/8	46-1/16	33	7/8	47-13/16	87-5/8	63	61-3/4	57-3/4	41	72-3/4	49-1/16	89-7/16	61	26-1/2
6600	43-3/4	66	6	29-3/4	51-5/8	36-3/4	7/8	52-9/16	96-5/16	69-3/8	67-15/16	63-9/16	45-1/8	80-7/16	54	98-11/16	67-3/8	29-3/8

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED.



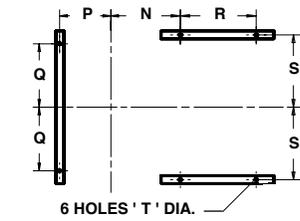
Arrangement 10

Size 1350 Through 3650
Class I and II SISW



FOUNDATION (PLAN)

DRIVE SIDE ELEVATION



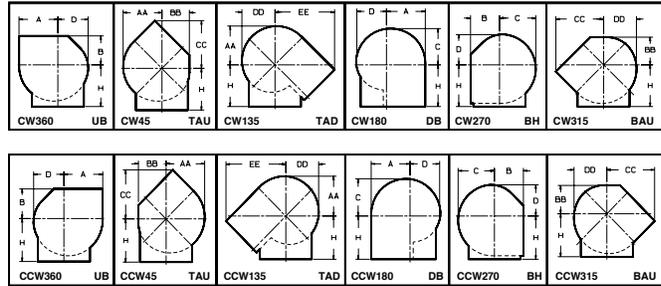
FOUNDATION (PLAN)

CCW 90 TH SHOWN
CW 90 TH OPPOSITE HAND

FAN SIZE	CENTER DISTANCE					
	143-145	182-184	213-215	254-256	284-286	324-326
1350	12.3	11.5	-	-	-	-
1500	12.2	11.4	-	-	-	-
1650	13.5	12.5	11.8	-	-	-
1825	13.5	12.5	11.8	-	-	-
2000	14.3	13.3	12.6	-	-	-
2225	16.8	15.8	15.1	-	-	-
2450	-	17.5	16.8	15.8	15.0	-
2700	-	19.8	18.8	17.8	17.0	-
3000	-	21.0	20.3	19.3	18.5	17.5
3300	-	25.5	24.8	23.8	23.0	22.0
3650	-	29.0	28.3	27.3	26.5	25.5

DRIVE CENTERS SHOULD BE WITHIN 0.7" OF VALUES LISTED.

ROTATION AND DISCHARGE POSITIONS (DRIVE SIDE)



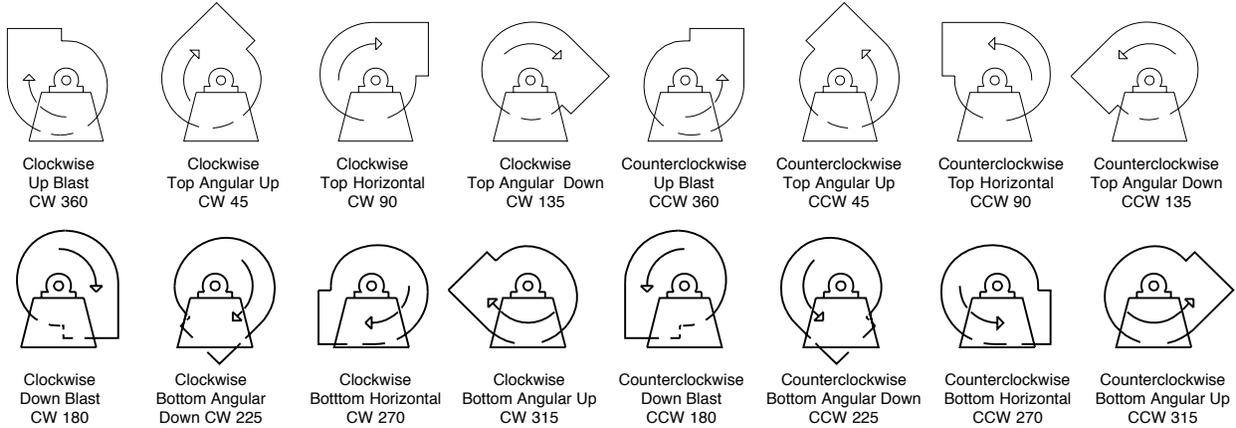
DIMENSIONS - INCH

FAN SIZE	SHAFT DIA. @ BEARINGS		KEYWAY		A	B		C	D	E	F	G	H	J	L
	CL - I	CL - II	CL - I	C - II		TH, UB TAU, BH & BAU, DISCH	TAD DISCH								
1350	1-3/16	1-7/16	1/4 x 1/8	3/8 x 3/16	13	11-3/4	18-3/4	12-1/4	10-3/16	19-5/8	17-1/8	6-15/16	20	22	24-1/2
1500	1-3/16	1-7/16	1/4 x 1/8	3/8 x 3/16	14-7/16	12-1/2	19-1/8	13-9/16	11-5/16	21	18-5/8	7-9/16	20	23-1/2	26-1/2
1650	1-7/16	1-7/16	3/8 x 3/16	3/8 x 3/16	15-7/8	13-1/4	21-1/8	14-15/16	12-7/16	25-1/4	20-1/8	8-1/8	21	25-3/8	29
1825	1-7/16	1-7/16	3/8 x 3/16	3/8 x 3/16	17-9/16	14	22-3/8	16-1/2	13-13/16	25-1/4	21-7/8	8-13/16	21	25-3/8	30
2000	1-7/16	1-11/16	3/8 x 3/16	3/8 x 3/16	19-1/4	15-1/2	24-7/8	18-1/16	15-1/8	29-1/4	24-1/8	10	22	26	30-1/2
2225	1-7/16	1-11/16	3/8 x 3/16	3/8 x 3/16	21-7/16	17-3/4	27-7/8	20-1/8	16-13/16	29-1/4	26-3/8	10-15/16	24-1/2	27-5/8	34-1/2
2450	1-11/16	1-11/16	3/8 x 3/16	3/8 x 3/16	23-5/8	19-1/2	30-5/8	22-3/16	18-1/2	34-5/8	28-5/8	11-13/16	27	29-1/4	36-1/2
2700	1-11/16	1-15/16	3/8 x 3/16	1/2 x 1/4	26	21-1/4	33	24-7/16	20-3/8	34-5/8	31-1/8	12-13/16	29	30-1/4	38-1/2
3000	1-15/16	2-3/16	1/2 x 1/4	1/2 x 1/4	28-7/8	23-1/4	36	27-1/8	22-5/8	37-3/4	34-5/8	14-1/2	32	32	40-1/2
3300	1-15/16	2-7/16	1/2 x 1/4	5/8 x 5/16	31-3/4	24-3/4	38-1/2	29-13/16	24-7/8	40	37-5/8	15-11/16	35	33-1/2	44
3650	1-15/16	2-11/16	1/2 x 1/4	5/8 x 5/16	35-1/8	26-1/2	41	33	27-1/2	40	41-1/8	17-1/16	38-1/2	34-1/2	47

FAN SIZE	M	N	P	Q	R	S	T	W	X	AA	BB	CC	DD	EE	MAX. MOTOR FR.
1350	1-1/2	8-7/16	6-5/16	7-1/8	16-3/4	9-1/16	1/	10-7/8	14-1/4	13	9-1/4	17-1/2	11-1/1	22-1/2	184 184
1500	1-1/2	9	6-7/8	7-7/8	18-1/4	9-3/4	1/	12-1/1	15-13/	14-7/	10-1/4	19-1/1	12-1/4	24-5/1	184 184
1650	1-1/2	9-5/8	7-1/2	8-5/8	20-1/8	11-7/8	1/	13-1/4	17-3/8	15-7/	11-5/1	20-5/8	13-1/2	26-3/1	213 215
1825	1-1/2	10-5/16	8-3/16	9-3/8	20-1/8	11-7/8	1/	14-5/8	19-1/4	17-5/	12-1/2	22-5/1	14-15/	28-1/4	213 215
2000	1-1/2	11	8-7/8	10-3/4	21	13-5/8	1/	16	21-1/1	19-1/	13-11/	24-9/1	16-3/8	31-3/1	215 215
2225	2	12-15/16	10	11-7/8	21-1/2	13-5/8	5/	17-13/	23-7/1	21-7/	15-1/4	27-11/	18-1/4	34-7/8	215 215
2450	2	13-13/16	10-7/8	13	22	16-5/16	5/	19-9/1	25-13/	23-5/	16-3/4	30-1/2	20-1/1	38-3/8	254 284
2700	2	14-13/16	11-7/8	14-5/8	23	16-5/16	5/	21-9/1	28-7/1	26	18-1/2	33-7/1	22-1/8	41-11/	256 286
3000	2-1/2	17	13-3/8	16-5/8	23-1/2	17-5/8	5/	23-15/	31-9/1	28-7/	20-9/1	36-7/8	24-9/1	45-15/	256 324
3300	2-1/2	18-3/16	14-9/16	18-1/8	24-1/2	18-1/2	5/	26-3/8	34-3/4	31-3/	22-9/1	39-15/	27	49-11/	284 326
3650	2-1/2	19-9/16	15-15/16	19-7/8	25-1/2	18-1/2	5/	29-1/8	38-3/8	35-1/	24-15/	43-9/1	29-7/8	54	286 326

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED.

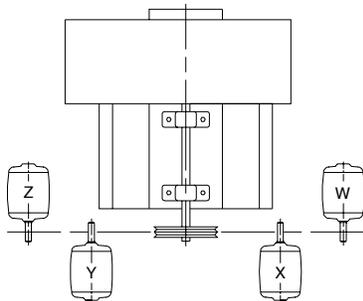
Designations for Rotation and Discharge of Centrifugal Fans



Notes:

- 1) Direction of rotation is determined from the drive side of the fan.
- 2) On single inlet fans, the drive side is always considered as the side opposite the fan inlet.
- 3) On double inlet fans with drives on both sides, the drive side is that with the higher powered drive unit.
- 4) Direction of discharge is determined in accordance with the diagrams. Angle of discharge is referred to the vertical axis of the fan and designated in degrees from such standard reference axis. Angle of discharge may be any intermediate angle as required.
- 5) For a fan inverted for ceiling suspension, or side wall mounting, the direction of rotation and discharge is determined when the fan is resting on the floor.

Standard Motor Position for Centrifugal Fans



- 1) Motor positions for a centrifugal fan have been given letter designations as shown.
- 2) These letter designations generally are used only when the motor is mounted separate from the fan proper (i.e. on the ground or on a common fan and motor integral base).

Sound Data

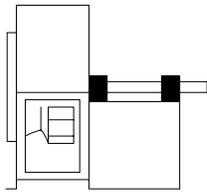
CML Northern Blower Inc. certifies that the product shown herein is licensed to bear the AMCA Seal. Fan Sound Ratings are based on tests and procedures in accordance with AMCA Publication 211 and AMCA Publication 311, and comply with the requirements of the AMCA Certified Ratings Program.

Fan sound data testing was conducted according to AMCA Standard 300 in an AMCA Registered Laboratory. The Certified Sound Ratings Seal provides increased assurance that the published sound ratings are both reliable and accurate.

Sound data was obtained in accordance with AMCA Standard 300, Reverberant Room Method of Sound Testing of Fans, published in accordance with AMCA Standard 301, Methods for Calculating Fan Sound Ratings from Laboratory Test data. Upon request Northern Blower will provide Sound Level Ratings for any fan selection from this catalogue. Refer also to the Northern Blower Sound Bulletin.

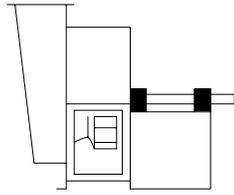
SW - Single Width
SI - Single Inlet

DW - Double Width
DI - Double Inlet



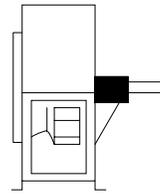
1 SWSI

For belt drive or direct connection. Impeller overhung. Two bearings on base.



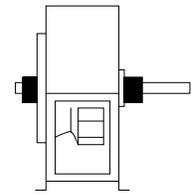
1 SWSI c/w BOX

For belt drive or direct connection. Impeller overhung. Two bearings on base. Inlet box may be self-supporting.



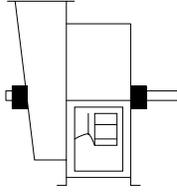
2 SWSI

For belt drive or direct connection. Impeller overhung. Bearings in bracket supported by fan housing.



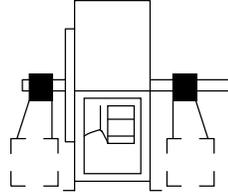
3 SWSI

For belt drive or direct connection. One bearing on each side and supported by fan housing.



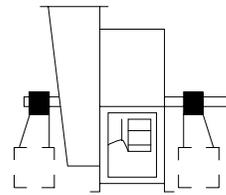
3 SWSI c/w BOX

For belt drive or direct connection. One bearing on each side and supported by fan housing and inlet box. Shaft extending through inlet box.



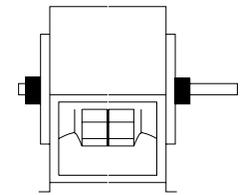
3 SWSI c/w IND. PED.

For belt drive or direct connection. Housing is self-supporting. One bearing on each side supported by independent pedestals.



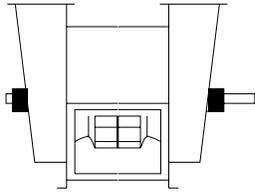
3 SWSI c/w BOX & IND. PED.

For belt drive or direct connection. Housing is self-supporting. One bearing on each side and supported by independent pedestals with shaft extending through inlet box.



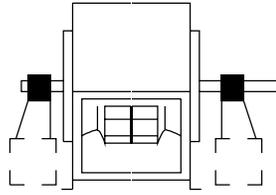
3 DWDI

For belt drive or direct connection. One bearing on each side and supported by fan housing.



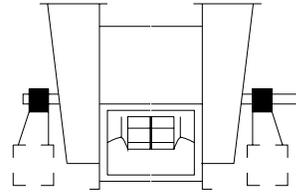
3 DWDI c/w BOXES

For belt drive or direct connection. One bearing on each side and supported by inlet boxes. Shaft extending through inlet boxes.



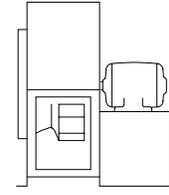
3 DWDI c/w IND. PED.

For belt drive or direct connection. Housing is self-supporting. One bearing on each side and supported by independent pedestals.



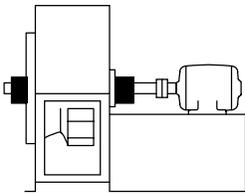
3 DWDI c/w BOXES & IND. PED.

For belt drive or direct connection. Housing is self-supporting. One bearing on each side supported by independent pedestals with shaft extending through inlet box.



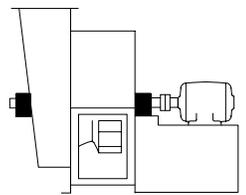
4 SWSI

For direct drive. Impeller overhung on prime mover shaft. No bearings on fan. Prime mover base mounted or integrally directly connected.



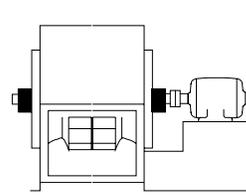
7 SWSI

For belt drive or direct connection. Arrangement 3 plus base for prime mover.



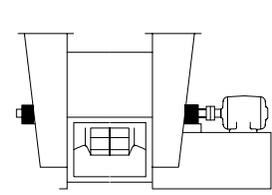
7 SWSI c/w BOX

For belt drive or direct connection. Arrangement 3 plus base for prime mover. Shaft extending through inlet box.



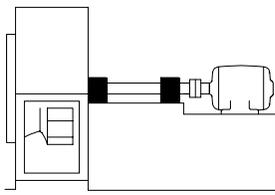
7 DWDI

For belt drive or direct connection. Arrangement 3 plus base for prime mover.



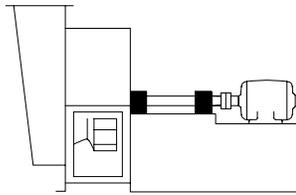
7 DWDI c/w BOXES

For belt drive or direct connection. Arrangement 3 plus base for prime mover. Shaft extending through inlet box.



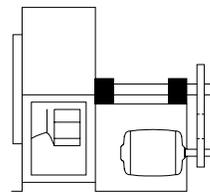
8 SWSI

For belt drive or direct connection. Arrangement 1 plus extended base for prime mover.



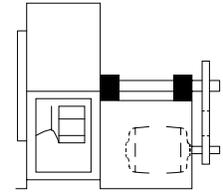
8 SWSI c/w BOX

For belt drive or direct connection. Arrangement 1 plus extended base for prime mover.



9 SWSI

For belt drive. Impeller overhung, two bearings, with prime mover outside base.



10 SWSI

For belt drive. Impeller overhung, two bearings, with prime mover inside base.



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